

Please check your model name and your destination in parts list before parts order.

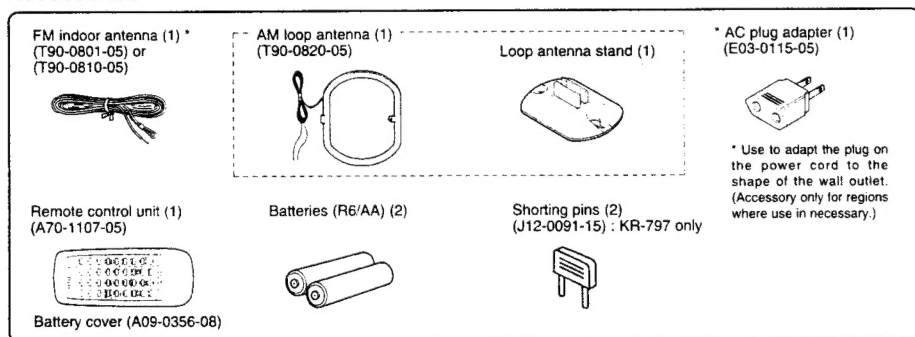
106VR/107VR/KR-797/897/V6090/V7090

CONTENTS / ACCESSORIES

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Accessories



* Refer to parts list

Instruction manual

KR-V6090/106VR

| | | |
|----------|-------------|-----|
| ENGLISH | B60-2983-00 | KPY |
| FRENCH | B60-2984-00 | P |
| FRE/DUT | B60-2985-00 | E |
| ITA/SPA | B60-2986-00 | E |
| GERMAN | B60-2987-00 | E |
| ENGLISH | B60-2988-00 | T |
| SPANISH | B60-2989-00 | M |
| CHINESE | B60-2990-00 | V |
| TAIWAN | B60-2991-00 | M |
| RUSS/POL | B60-2992-00 | Q |
| ENGLISH | B60-3072-00 | MX |

KR-V7090/107VR

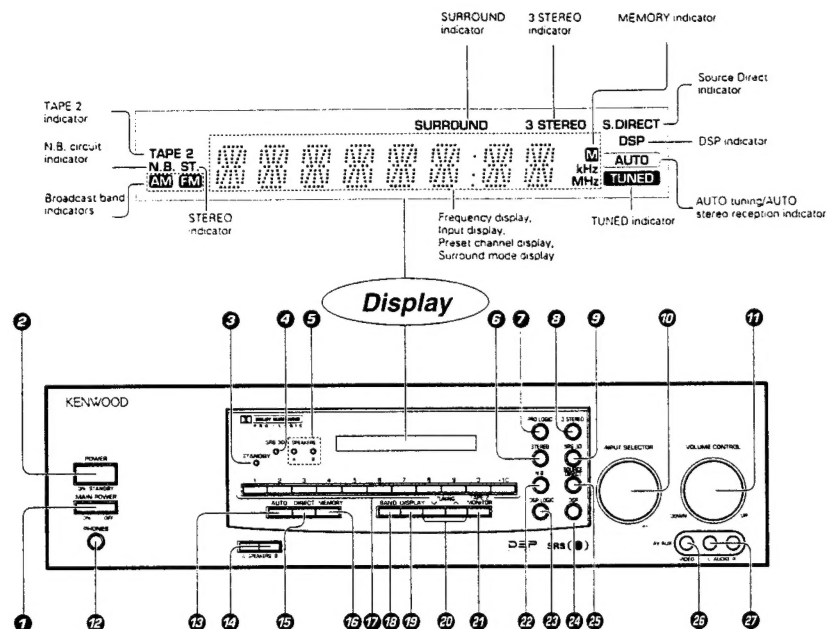
| | | |
|---------|-------------|----|
| FRENCH | B60-2979-00 | P |
| SPANISH | B60-2980-00 | M |
| CHINESE | B60-2981-00 | V |
| TAIWAN | B60-2982-00 | M |
| ENGLISH | B60-3071-00 | MX |

KR-797/897

| | | |
|---------|-------------|----|
| ENGLISH | B60-3069-00 | PY |
| FRENCH | B60-3070-00 | P |

CONTROLS

Control and indicators



- ① **MAIN POWER switch**
Press to switch the main power ON/OFF.
- ② **REMOTE POWER key**
Press to switch over the STANDBY/ON modes when the MAIN POWER is ON.
- ③ **STANDBY indicator**
Lights when the SRS 3D system is ON.
- ④ **SRS 3D indicator**
Lights when the speakers are ON.
- ⑤ **SPEAKERS indicator**
Lights when the speakers are ON.
- ⑥ **STEREO key**
Press to turn the surround mode OFF.
- ⑦ **DOLBY PRO LOGIC key**
- ⑧ **DOLBY 3 STEREO key**
- ⑨ **SRS 3D key**
- ⑩ **INPUT SELECTOR knob**
Rotate to select the input source.
- ⑪ **VOLUME CONTROL knob**
- ⑫ **PHONES jack**
Plug headphones into this jack.

- ⑬ **AUTO key**
Press to select the tuning mode from the auto tuning and manual tuning modes.
- ⑭ **SPEAKERS A/B keys**
Press and hold the AUTO key for more than 2 seconds to switch the VIDEO1 display to another input display.
- ⑮ **DIRECT key**
Press to select the A and/or B speakers system.
- ⑯ **DIRECT key**
Press when tuning a broadcast station by entering the digits of its frequencies.
- ⑰ **MEMORY key**
Press when registering a broadcast station in the preset memory.
- ⑱ **Numeric keys (1 to 0, +10)**
- ⑲ **BAND key**
Press to switch the broadcasting band.
- ⑳ **DISPLAY key**
Press to switch the displayed information between the surround mode display and input selector display.
Press and hold the DISPLAY key for more than 2 seconds to switch the display brightness.
- ㉑ **TUNING keys (V, A)**
Press to select a radio station.
- ㉒ **TAPE 2 MONITOR key**
Press to monitor the sound being recorded, etc.
- ㉓ **N.B. key**
Press to compensate for the insufficiency in the base sound.
- ㉔ **DSP LOGIC key**
- ㉕ **DSP key**
- ㉖ **SOURCE DIRECT key**
Press to listen to the source sound with a higher sound quality.
- ㉗ **AV AUX (VIDEO) input terminals**
Video input terminal.
- ㉘ **AV AUX (AUDIO) input terminals**
Audio input terminal.

STANDBY position of the REMOTE POWER key

When the STANDBY indicator of this unit is lit after its power cord has been plugged into wall outlet and the MAIN POWER switch has been pressed to ON, a small amount of current is supplied to back up the internal memory of the unit. This status is referred to as the standby mode of the unit. While the STANDBY indicator is lit, the POWER can be switched between ON and STANDBY from the remote control unit. When the unit is not to be used for a long period of time, press the MAIN POWER key to OFF.

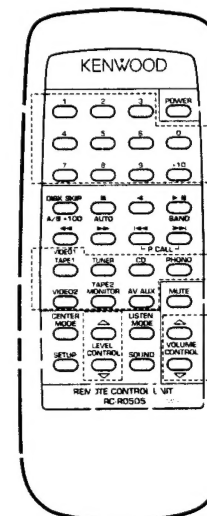
CONTROLS

Operation of remote control unit

Names of keys and their functions

The remote control unit provided with the receiver can also control KENWOOD cassette decks, CD player and MD recorder connected to the receiver through system control cords. For details of the controllable functions, refer to the instruction manuals of these components.

Model: RC-R0505
Infrared ray system



Numeric keys
Used as the numeric keys of the input source component being selected.

INPUT keys
Press to select the input.

CENTER MODE key
Press to select the center mode in the DOLBY PRO LOGIC surround mode.

SETUP key
Press to set up the balance or surround play.

LEVEL CONTROL keys
Press to adjust the tone or during setup of the surround mode.

POWER key
Press to switch ON/OFF the power of this unit as well as the KENWOOD components connected to it through system control cords.

Refer to the remote control key correspondence table on the next page.

MUTE key
Press to mute sound temporarily.

VOLUME CONTROL keys
Press to adjust the volume.

LISTEN MODE key
Press to select the type of the surround mode.

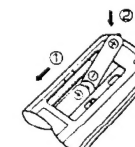
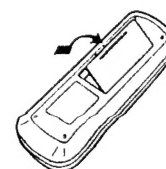
SOUND key
Press to adjust the tone.

Loading batteries

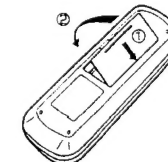
① Remove the cover.

② Insert batteries.

③ Close the cover.



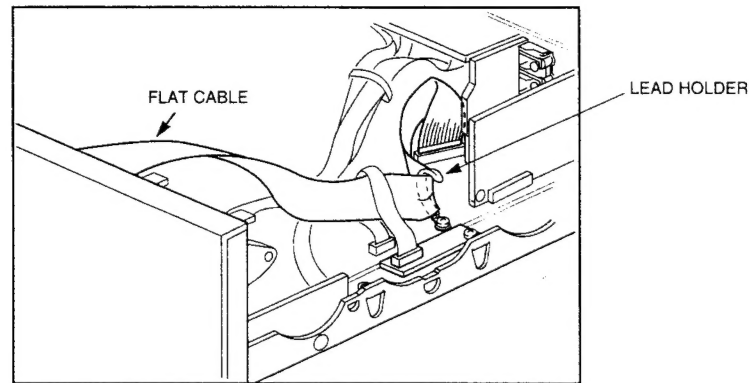
Insert two AA-size (R6 / SUM-3) batteries as indicated by the polarity marking.



106VR/107VR/KR-797/897/V6090/V7090

DISASSEMBLY FOR REPAIR**※ CAUTION FOR REPAIR**

Keep a flat cable away from heatsink for safety, and tie it with the lead holder as illustration if disassembled for repair.



106VR/107VR/KR-797/897/V6090/V7090

CIRCUIT DESCRIPTION**1. INITIAL STATE****(1) AMP-related block**

| | |
|---------------------|-----------|
| • POWER ON STAND BY | POWER OFF |
| • AUDIO SELECTOR | TUNER |
| • VIDEO SELECTOR | VIDEO 1 |
| • VIDEO OUT SOURCE | VIDEO 1 |
| • SPEAKER A | ON |
| • SPEAKER B | OFF |
| • TAPE 2 MONITOR | OFF |
| • SOURCE DIRECT | OFF |
| • SOUND ADJUST MODE | BASS |
| • BASS | 0 STEP |
| • MID | 0 STEP |
| • TREBLE | 0 STEP |
| • SRS 3D | OFF |
| • SRS CENTER | |
| • VOLUME | 7 step |
| • N. B. CIRCUIT | OFF |

(2) SURROUND-related block

| | |
|------------------|--------------------------|
| • SURROUND MODE | STEREO (SURROUND OFF) |
| • DSP MODE | ARENA |
| • DSP LOGIC MODE | LARGE |
| • CENTER MODE | NORMAL |
| • SET UP MODE | OFF |
| • DISTANCE | |
| DSP/DSP LOGIC | 30ms |
| DOLBY PRO LOGIC | 20ms |
| • BALANCE | CENTER |
| • CENTER LEVEL | 0 STEP |
| • REAR LEVEL | 0 STEP |
| • SUB WOOFER | 0 STEP(SUB WOOFER OFF) |

(3) Tune-related block

| | |
|-----------------------|---------------------|
| • BAND | FM |
| • FREQUENCY | 87.5MHz(K/E/Q TYPE) |
| • P.CH DISPLAY | --CH |
| • RDS MEMORY | NO DATA |
| • POLAR/PILOT(Q TYPE) | POLAR |

(4) TEST PRESET FREQUENCY

| Channel | BAND | K1 TYPE | BAND | K2 TYPE | BAND | E1/E3 TYPE | BAND | Q TYPE |
|---------|------|-----------|------|-----------|------|------------|------|-----------|
| 01ch | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 02ch | FM | 97.50MHz | FM | 97.50MHz | FM | 97.50MHz | FM | 98.00MHz |
| 03ch | FM | 108.00MHz | FM | 108.00MHz | FM | 108.00MHz | FM | 108.00MHz |
| 04ch | AM | 630kHz | AM | 630kHz | AM | 630kHz | AM | 630kHz |
| 05ch | AM | 1000kHz | AM | 1000kHz | AM | 999kHz | AM | 999kHz |
| 06ch | AM | 1440kHz | AM | 1440kHz | AM | 1440kHz | AM | 1440kHz |
| 07ch | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz | FML | 74.00MHz |
| 08ch | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz | FML | 65.00MHz |
| 09ch | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz | FML | 69.00MHz |
| 10ch | FM | 89.10MHz | FM | 89.10MHz | FM | 89.10MHz | FM | 89.10MHz |
| 11ch | FM | 90.00MHz | FM | 90.00MHz | FM | 90.00MHz | FM | 90.00MHz |
| 12ch | FM | 98.00MHz | FM | 98.00MHz | FM | 98.00MHz | FM | 97.50MHz |
| 13ch | FM | 98.50MHz | FM | 98.50MHz | FM | 98.50MHz | FM | 98.50MHz |
| 14ch | FM | 106.00MHz | FM | 106.00MHz | FM | 106.00MHz | FM | 106.00MHz |
| 15ch | AM | 530kHz | AM | 530kHz | AM | 531kHz | AM | 531kHz |
| 16ch | AM | 990kHz | AM | 990kHz | AM | 990kHz | AM | 990kHz |
| 17ch | AM | 1700kHz | AM | 1610kHz | AM | 1602kHz | AM | 1602kHz |
| 18ch | FM | 87.50 MHz | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 19ch | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 20ch | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |

The initial setting is performed in a following event :

1. When backup memory data is destroyed when reset is applied to the microprocessor.
2. When the power cord is plugged in to the AC wall outlet while pressing the POWER key.

CIRCUIT DESCRIPTION

2. BACK UP.

For the operation outline and backup state setting, refer to KR-V7080/V8080 service manual (B51-5162-00).

(1) Contents of back up data to be held.

---- AMP ----

- POWER STANDBY ON/OFF
- SELECTOR SOURCE
- VIDEO 1 SELECTOR SOURCE
- VIDEO OUT SOURCE
- TAPE2 MONITOR ON/OFF
- SPEAKER A RELAY ON/OFF
- SPEAKER B RELAY ON/OFF
- VOLUME LEVEL VALUE
- SOUND ADJUST MODE
- BASS LEVEL
- MID LEVEL
- TREBLE LEVEL
- SRS 3D ON/OFF
- SRS CENTER LEVER
- SRS SPACE LEVEL

- SOURCE DIRECT ON/OFF
- N.B. CIRCUIT ON/OFF
- SURROUND ----

- SURROUND MODE
- DSP MODE
- DSP LOGIC MODE
- CENTER MODE
- DISTANCE
- BALANCE LEVEL
- CENTER LEVEL
- REAR LEVEL
- SUB WOOFER LEVEL

---- TUNER ----

- BAND
- RECEIVING STATION FREQUENCY data
- PRESET MEMORY data
- RDS MEMORY
- POLAR/PILOT

3. DESTINATION LIST OF TUNER

Table 3-1 Destination List of Tuner

| Destination | BAND | Receive frequency range | channel space | 1F | PLL reference frequency | Destination DSW(X09-) | | |
|--------------|---|-------------------------|---------------|----------|-------------------------|-----------------------|--------------|--------------|
| | | | | | | DSW2 D114 | DSW1 D113 | DSW0 D112 |
| K1 (1700) | FM | 87.5MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz | 0 | 0 | 0 |
| | AM | 530kHz~1700kHz | 10kHz | +450kHz | 10kHz | | | |
| K2 (1610) | FM | 87.5MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz | 0 | 0 | 1 |
| | AM | 530kHz~1610kHz | 10kHz | +450kHz | 10kHz | | | |
| E1 | FM | 87.5MHz~108.0MHz | 50kHz | +10.7MHz | 25kHz | 0 | 1 | 1 |
| | AM | 531kHz~1602kHz | 9kHz | +450kHz | 9kHz | | | |
| E3 (RDS) | FM | 87.5MHz~108.0MHz | 50kHz | +10.7MHz | 25kHz | 1 | 0 | 1 |
| | AM | 531kHz~1602kHz | 9kHz | +450kHz | 9kHz | | | |
| Q(RDS) | FML | 65.0MHz~74.0MHz | 10kHz | +10.7MHz | 5kHz | 1 | 1 | 1 |
| | FMH | 87.5MHz~108MHz | 50kHz | +10.7MHz | 5kHz | | | |
| | AM | 531kHz~1602kHz | 9kHz | +450kHz | 9kHz | | | |
| M | K2/E1 changes by only setting "DSW1". (DSW 1=0 : K2 Type, 1 : E1 Type) | | | | | 0 | X | 1 |

DIODE SW(DSWX) : 0 = Without DIODE (When static, input LOW)

1 = With DIODE (When static, input HIGH)

X = TRANSISTOR SW (0 = OFF 1=ON)

4. DESTINATION AND MODEL LIST

| MODEL | FUNCTION DSP/DSP LOGIC | FRONT AUX | SPEAKER B | MODEL SELECTION SW | |
|----------|---------------------------|-----------|-----------|--------------------|-------------|
| | | | | DSW3 (DI22) | DSW4 (DI23) |
| KR-V7090 | 0 | 0 | 0 | 0 | 1 |
| KR-V6090 | X | X | X | 1 | 0 |
| KR-V5090 | X | X | X | 0 | 0 |

CIRCUIT DESCRIPTION

5. KEY MATRIX

[() : μ -Com IC port] X09 IC21

| KSCN | KRTN | KR0(14) | KR1(15) | KR2(16) | KR3(17) | KR4(18) |
|----------|-------------|-------------|-------------|---------------|----------------|---------|
| KS1 (54) | SP.A | STEREO/MONO | *1 SP.B | — | — | — |
| KS2 (53) | — | 3 (10 KEY) | POWER ON/ST | 1 (10KEY) | 2 (10 KEY) | — |
| KS3(52) | +10 | TAPE2 | T.DOWN | *RTY | *TA/NEWS INFO. | — |
| KS4(51) | DSP/P.UP | S.DIRECT | N.B | DSP L./P.KOWN | 9 (10 KEY) | — |
| KS5(50) | 0 (10 KEY) | T.UP | DISPLAY | BAND | 7 (10 KEY) | — |
| KS6(49) | 6 (10 KEY) | 4 (10 KEY) | 5 (10 KEY) | DIRECT | MEMORY | — |
| KS7(48) | 3 ST | SRS 3D | STEREO | PRO LOGIC | 8 (10 KEY) | — |
| KS8(47) | DSW0 (D123) | DSW1 (D122) | DSW2 (D114) | DSW3 (D113) | DSW4 (D112) | — |

* 1 KR-V7090 ONLY

* 2, 3 E3/Q TYPE (RDS) ONLY

6. TEST MODE

For the TEST MODE of main unit and SERIAL TEST MODE, refer to service manual (B51-5162-00) of KR-V7080/V8080. The only change point is as follows.

(1) One touch setting's for Audio Level and Surround Level items.

The variation of Audio Level and Surround Level items can be set with respective keys and, if the selector is on something other than TUNER, direct settings can be made with the number keys.

| KEY | MODEL | KR-V7080/V8080 | 105VR/106VR/107VR KR-797/897/XX90SERIES |
|-------------|----------|----------------|--|
| | FUNCTION | | |
| KEY [4] | | BALANCE | BALANCE ↔ SUB WOOFER LEVEL |
| KEY [5] | | BASS | BASS → MIDDLE → TREBLE |
| KEY [6] | | TREBLE | REAR LEVEL |
| KEY [7] | | SUB WOOFER | CENTER LEVEL |
| KEY [8] | | REAR LEVEL | DELAY TIME |
| KEY [9] | | CENTER LEVEL | SRS CENTER ↔ SPACE |
| KEY [0] | | DELAY TIME | MULTI CONTROL UP |
| KEY [+10] | | EFFECT LEVEL | MULTI CONTROL DOWN |

106VR/107VR/KR-797/897/V6090/V7090

CIRCUIT DESCRIPTION

(2) SERIAL TEST CODE LIST (C2XXH)

| TYPE FUNC | AMP | | | | | | | | TUNER | | | | | | | |
|--------------|----------------|-----------------------|-------------------|-------------------------|-----------------------|---------------------------|-------------------|----------------------|-----------------------|------------|-----------------------|---|---|---|---|-----------------------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| 0 | POWER OFF | CD DIRECT OFF | SP B OFF | DUAL SOUND LEVEL1 | NB OFF | TV/SAT (TV/CABLE) (INPUT) | INPUT LEVEL MIN | CENTER SP ON | POWER OFF | 0 | MEMORY (ENTER) | | | | | |
| 1 | POWER ON | CD DIRECT ON | SP B ON | DUAL SOUND LEVEL2 | OMNI SP ON | FRONT SP ON | INPUT LEVEL MID | CENTER SP OFF | POWER ON | 1 | MAIN | | | | | |
| 2 | PHONO | CD REC OFF | HIT MASTER OFF | DUAL SOUND LEVEL3 | MUTING (-30dB) OFF | FRONT SP OFF | INPUT LEVEL MAX | MD MONITOR ON | MUTE OFF | 2 | SUB | | | | | |
| 3 | CD | CD REC ON | HIT MASTER ON | DUAL SOUND INPUT CD | MUTING (-30dB) ON | C/S SP ON | DIMMER OFF | MD MONITOR OFF 1 | MUTE ON | 3 | BOTH | | | | | |
| 4 | TUNER | SOURCE DIRECT OFF | MOTOR VOL UP | DUAL SOUND INPUT TUNER | NB LEVEL1 | C/S SP OFF | DIMMER 1 | REC MODE ON | AUTO STEREO | 4 | AF | | | | | |
| 5 | TAPE (TAPE A) | SOURCE DIRECT ON | MOTOR VOL DOWN | DUAL SOUND INPUT TAPE | NB LEVEL2 | C/S MUTE ON | DIMMER 2 | REC MODE OFF | MONO | 5 | PTY | | | | | |
| 6 | TAPE2 (TAPE B) | LINE STRAIGHT OFF | MOTOR VOL STOP | DUAL SOUND INPUT MD/DAT | NB LEVEL3 | VIDEO5 | IR REPEATER TEST | REC OUT OFF POSITION | TUNED OFF | 6 | DISPLAY | | | | | |
| 7 | AUX | SINE STRAIGHT ON | DBS/TV | DUAL SOUND INPUT VIDEO | BALANCE Lch MAX | MENU | MD (INPUT) | | TUNED ON | 7 | ANTENNA A | | | | | |
| 8 | DAT | LOUDNESS OFF | TAPE2 MONITOR OFF | DUAL SOUND INPUT AV/AUX | BALANCE Rch CENTER | TOPE CONTROL OFF | TV (INPUT) | | ACTIVE RECEPTION OFF | 8 | ANTENNA B | | | | | |
| 9 | VIDEO1 (VIDEO) | LOUDNESS ON | TAPE2 MONITOR ON | BGM OFF | BALANCE Rch MAX | TOPE CONTROL ON | CABLE/Sat (INPUT) | FL ALL OFF OFF | ACTIVE RECEPTION ON | 9 | PS DISPLAY | | | | | FL ALL OFF OFF |
| A | VIDEO2 | SUB SONIC OFF | VIDEO MUTE ON | BGM ON | L A C MAIN MAX | BASS MIN | SUB MUTE ON | FL ALL OFF ON | RF DIRECT (ATT ON) | +10 | SIGNAL LEVEL DISP OFF | | | | | FL ALL OFF ON |
| B | VIDEO3 | SUB SONIC ON | LAC VOL UP | FAN OFF | L A C MAIN/SUB CENTER | BASS MID | REC MUTE ON | ALL ON OFF | RS DISTANCE (ATT OFF) | BAND FM | SIGNAL LEVEL DISP ON | | | | | ALL ON OFF |
| C | VIDEO4 (VDP) | SUPER WOOFER OFF | LAC VOL DOWN | FAN ON | L A C SUB MIN | BASS MIX | BASS DOWN | ALL ON ON | IF WIDE | BAND AM/MW | TUNER DIRECT | | | | | ALL ON ON |
| D | MUTE ON (MAIN) | SUPER WOOFER ON | LAC VOL STOP | FAN SPEED LOW | FAN STOP LOW | TREBLE MIN | BASS UP | AMP INITIAL | IF NORMAL | BAND TV/LW | | | | | | TUNER INITIAL |
| E | SEL MUTE ON | SPEAKER A OFF (FRONT) | DUAL SOUND OFF | FAN SPEED HIGH | FAN STOP HIGH | TREBLE MID | TREBLE DOWN | AMP SERIAL TEST OFF | IF NARROW | DOWN | | | | | | TUNER SERIAL TEST OFF |
| F | MUTE ALL OFF | SPEAKER A ON (FRONT) | DUAL SOUND ON | NB ON | LD (INPUT) | TREBLE MAX | TREBLE UP | AMP SERIAL TEST ON | DIRECT | UP | | | | | | TUNER SERIAL TEST ON |

■ : Sending code □ : Receiving code

(C3XXH)

| TYPE FUNC | SURROUND | | | | | | | | GE | | | | | | | |
|--------------|---------------------------|-----------------------------|----------------------|-----------------------|--------------------------|---------------------|----------------------|--------------------------|----------------|-----------|---|---|---|---|---|--------------------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| 0 | POWER OFF | REAR MUTE ON | ASFC MAX | ACOUSTIC BGM | PRESENCE GAME | ECHO 2 | SUB WOOFER LEVEL MIN | MIDNIGHT OFF | POWER OFF | EQ JAZZ | | | | | | |
| 1 | POWER ON | MUTE ALL OFF | SEAT POS MIN | CINEMA SCREEN OFF | PRESENCE KARAOKE | PRESENCE HIT MASTER | SUB WOOFER LEVEL MID | MIDNIGHT 1 | POWER ON | EQ FUSION | | | | | | |
| 2 | STEREO BYPASS/OFF | CENTER LEVEL MIN | SEAT POS MID | CINEMA SCREEN 1 | F 2ch | THX | SUB WOOFER LEVEL MAX | MIDNIGHT 2 | MUTE OFF | EQ MOVIE | | | | | | |
| 3 | DOLBY SURROUND NORMAL/WID | CENTER LEVEL MID | SEAT POS MAX | CINEMA SCREEN 2 | DOLBY SURROUND (PHANTOM) | MONO | 3D STEREO ON | MIDNIGHT 3 | MUTE ON | | | | | | | |
| 4 | DOLBY 3 STEREO | CENTER LEVEL MAX | WALL MIN | CINEMA SCREEN 3 | DEPTH OFF | INPUT LEVEL MIN | 3D STEREO OFF | AC-3 ON | EQ OFF | | | | | | | |
| 5 | DSP | REAR R LEVEL MIN | WALL MID | CH MODE 2ch | DEPTH ON | INPUT LEVEL MID | 3D STEREO LEVEL 1 | SURROUND AUTO | EQ ON | | | | | | | |
| 6 | DSP LOGIC | REAR R LEVEL MID | WALL MAX | CH MODE 3ch | DEPTH MODE VOCAL | INPUT LEVEL MAX | 3D STEREO LEVEL 2 | | M1 (ALL CEN) | | | | | | | |
| 7 | S 4ch | REAR R LEVEL MAX | HXXM SIZE MIN | CH MODE 4ch | DEPTH MODE INSTRUMENT | FRONT L LEVEL MIN | 3D STEREO LEVEL 3 | | M2 (ALL MAX) | | | | | | | |
| 8 | F 4ch | DELAY TIME MIN | ROOM SIZE MID | CH MODE 5ch | DEPTH LEVEL MIN | FRONT L LEVEL MID | 3D STEREO LEVEL 4 | | M3 (ALL MIN) | | | | | | | |
| 9 | CENTER MODE NORMAL | DELAY TIME MID | ROOM SIZE MAX | DSP THROUGH | DEPTH LEVEL MID | FRONT L LEVEL MAX | 3D STEREO LEVEL 5 | FL ALL OFF OFF | EEPROM TEST | | | | | | | FL ALL OFF OFF |
| A | CENTER MODE WIDE | DELAY TIME MAX | STEREO (KARAOKE) | DSP ARENA | DEPTH LEVEL MAX | FRONT R LEVEL MIN | KEYCON 1 | FL ALL OFF ON | EEPROM TEST OK | | | | | | | FL ALL OFF ON |
| B | CENTER MODE PHANTOM | (PRESENCE) EFFECT LEVEL MIN | MULTI (KARAOKE) | DSP JAZZ CLUB | SUB(OMNI) MUTE ON | FRONT R LEVEL MID | KEYCON 4 | ALL ON OFF | EEPROM TEST NG | | | | | | | ALL ON OFF |
| C | TEST TONE OFF | (PRESENCE) EFFECT LEVEL MID | HIFI MULTI (KARAOKE) | DSP STADIUM | DSP LOGIC LARGE | FRONT R LEVEL MAX | KEYCON 8 | ALL ON ON | LINE ON | | | | | | | ALL ON ON |
| D | TEST TONE ON | (PRESENCE) EFFECT LEVEL MAX | NORMAL (KARAOKE) | PRESENCE DISCO THEQUE | DSP LOGIC SMALL | REAR L LEVEL MIN | MATRIX SURROUND OFF | SURROUND INITIAL | TAPE ON | | | | | | | GE INITIAL |
| E | FRONT MUTE ON | ASFC MIN | ACOUSTIC NON DRE1 | PRESENCE CHURCH | ECHO OFF | REAR L LEVEL MID | MATRIX SURROUND ON | SURROUND SERIAL TEST OFF | EQ POP | | | | | | | GE SERIAL TEST OFF |
| F | CENTER MUTE ON | ASFC MID | ACOUSTIC NON DRE2 | PRESENCE MOVIE | ECHO 1 | REAR L LEVEL MAX | KEYCON OFF | SURROUND SERIAL TEST ON | EQ ROCK | | | | | | | GE SERIAL TEST ON |

■ : Sending code □ : Receiving code

106VR/107VR/KR-797/897/V6090/V7090

CIRCUIT DESCRIPTION

(C4XXH)

| H L | VOLUME LEVEL | | | | | | | | | | | | | | | |
|--------|--------------|-----------|-----------|-----------|-----------|-----------|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| 0 | VOLUME 0 | VOLUME 16 | VOLUME 32 | VOLUME 48 | VOLUME 64 | VOLUME 80 | | | | | | | | | | |
| 1 | VOLUME 1 | VOLUME 17 | VOLUME 33 | VOLUME 49 | VOLUME 65 | VOLUME 81 | | | | | | | | | | |
| 2 | VOLUME 2 | VOLUME 18 | VOLUME 34 | VOLUME 50 | VOLUME 66 | VOLUME 82 | | | | | | | | | | |
| 3 | VOLUME 3 | VOLUME 19 | VOLUME 35 | VOLUME 51 | VOLUME 67 | VOLUME 83 | | | | | | | | | | |
| 4 | VOLUME 4 | VOLUME 20 | VOLUME 36 | VOLUME 52 | VOLUME 68 | VOLUME 84 | | | | | | | | | | |
| 5 | VOLUME 5 | VOLUME 21 | VOLUME 37 | VOLUME 53 | VOLUME 69 | VOLUME 85 | | | | | | | | | | |
| 6 | VOLUME 6 | VOLUME 22 | VOLUME 38 | VOLUME 54 | VOLUME 70 | VOLUME 86 | | | | | | | | | | |
| 7 | VOLUME 7 | VOLUME 23 | VOLUME 39 | VOLUME 55 | VOLUME 71 | VOLUME 87 | | | | | | | | | | |
| 8 | VOLUME 8 | VOLUME 24 | VOLUME 40 | VOLUME 56 | VOLUME 72 | VOLUME 88 | | | | | | | | | | |
| 9 | VOLUME 9 | VOLUME 25 | VOLUME 41 | VOLUME 57 | VOLUME 73 | VOLUME 89 | | | | | | | | | | |
| A | VOLUME 10 | VOLUME 26 | VOLUME 42 | VOLUME 58 | VOLUME 74 | VOLUME 90 | | | | | | | | | | |
| B | VOLUME 11 | VOLUME 27 | VOLUME 43 | VOLUME 59 | VOLUME 75 | VOLUME 91 | | | | | | | | | | |
| C | VOLUME 12 | VOLUME 28 | VOLUME 44 | VOLUME 60 | VOLUME 76 | VOLUME 92 | | | | | | | | | | |
| D | VOLUME 13 | VOLUME 29 | VOLUME 45 | VOLUME 61 | VOLUME 77 | VOLUME 93 | | | | | | | | | | |
| E | VOLUME 14 | VOLUME 30 | VOLUME 46 | VOLUME 62 | VOLUME 78 | VOLUME 94 | | | | | | | | | | |
| F | VOLUME 15 | VOLUME 31 | VOLUME 47 | VOLUME 63 | VOLUME 79 | VOLUME 95 | | | | | | | | | | |

☒ : Sending code ☐ : Receiving code

(C5XXH)

| H L | VOLUME LEVEL | | | | | | | | | | | | | | | |
|--------|--------------------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
| 0 | RF RECEIVE CHANNEL SET | MIDDLE MIN | | | | | | | | | | | | | | |
| 1 | RF TRANSMIT CHANNEL SET | MIDDLE MID | | | | | | | | | | | | | | |
| 2 | RF TRANSMIT MODULATION | MIDDLE MAX | | | | | | | | | | | | | | |
| 3 | TRANSMIT NON MODULATION | SRS CENTER MIN | | | | | | | | | | | | | | |
| 4 | RF BIDIRECTIONAL COM ON | SRS CENTER MID | | | | | | | | | | | | | | |
| 5 | RF BIDIRECTIONAL COM OFF | SRS CENTER MAX | | | | | | | | | | | | | | |
| 6 | CONFIGURATION 1 | SRS SPACE MIN | | | | | | | | | | | | | | |
| 7 | CONFIGURATION 2 | SRS SPACE MID | | | | | | | | | | | | | | |
| 8 | CONFIGURATION 3 | SRS SPACE MAX | | | | | | | | | | | | | | |
| 9 | INPUT TYPE AUTO | | | | | | | | | | | | | | | |
| A | INPUT TYPE RF | | | | | | | | | | | | | | | |
| B | INPUT TYPE DIGITAL OPT | | | | | | | | | | | | | | | |
| C | INPUT TYPE DIGITAL COAX | | | | | | | | | | | | | | | |
| D | INPUT TYPE ANALOG | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | |
| F | | | | | | | | | | | | | | | | |

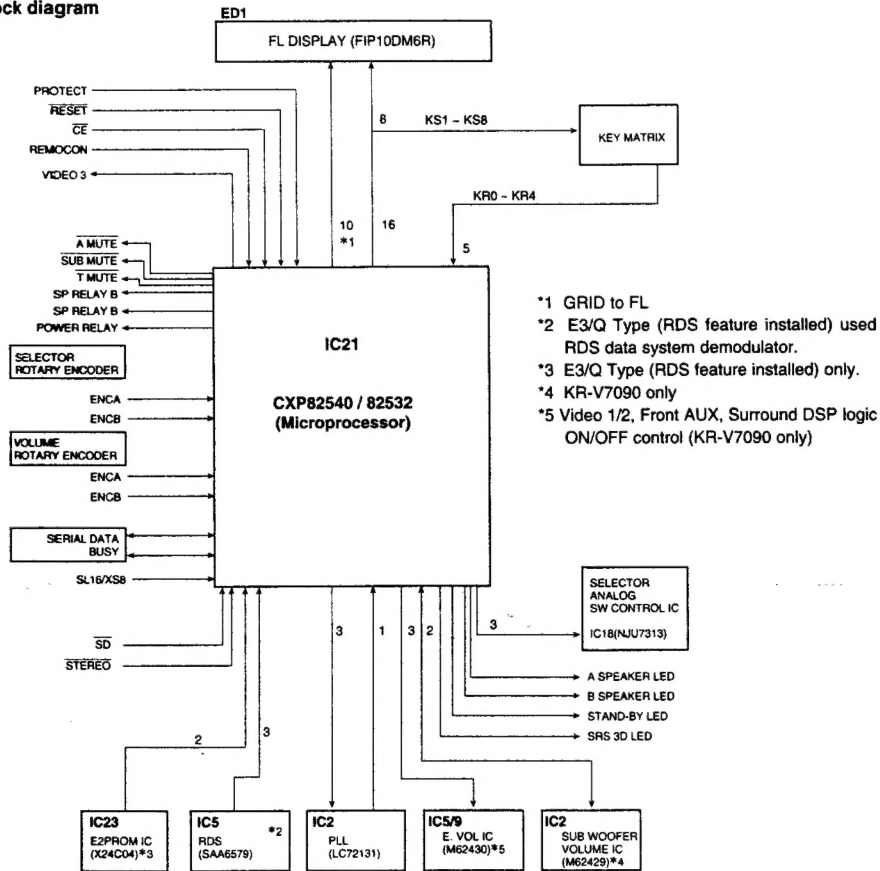
☒ : Sending code ☐ : Receiving code

106VR/107VR/KR-797/897/V6090/V7090

CIRCUIT DESCRIPTION

7. Microprocessor : CXP82540/82532 (X09 : IC21)

Block diagram



| MODEL | UNIT NO | DESTINATION | MICROPROCESSOR |
|----------------|-------------|-------------|----------------|
| 106VR | X09-4510-10 | K/P | CXP82532-151Q |
| 106VR | X09-4510-21 | Y | CXP82532-151Q |
| KR-V6090 | X09-4510-71 | X | CXP82532-151Q |
| KR-V6090 | X09-4512-71 | T/E | CXP82540-152Q |
| 107VR | X09-4510-11 | K/P | CXP82532-151Q |
| 107VR/KR-V7090 | X09-4510-22 | Y/M/V | CXP82532-151Q |
| KR-V7090 | X09-4510-72 | X | CXP82532-151Q |
| KR-797 | X09-4510-12 | K/P | CXP82532-151Q |
| KR-897 | X09-4510-13 | K/P | CXP82532-151Q |
| KR-797 | X09-4512-91 | Y | CXP82532-151Q |
| KR-V6090 | X09-4519-81 | Q | CXP82540-152Q |
| 105VR | X09-4520-10 | K/P | CXP82532-151Q |
| 105VR/KR-V5090 | X09-4520-21 | Y/M/V | CXP82532-151Q |
| KR-V5090 | X09-4520-71 | X | CXP82532-151Q |
| KR-V5090 | X09-4522-71 | T/E | CXP82540-152Q |
| KR-V5090 | X09-4523-81 | Q | CXP82540-152Q |

106VR/107VR/KR-797/897/V6090/V7090

CIRCUIT DESCRIPTION

7-1. Pin function

| Pin No. | Pin name | I/O | Description | Active |
|---------|------------------|-----|---|---------------------|
| 1 | PLL DO | I | IF count data | — |
| 2 | REMOTE | I | Remote control input | — |
| 3 | SYSTEM SW | I | Serial SL16/XS8 Selection | — |
| 4-6 | NC | — | | — |
| 7 | SUR ST. | O | Surround IC strobe (LA2786/LV1016) | H |
| 8 | VR/SURROUND CK | O | M62430/LA2786/LV1016(Volume/surround) clock | L |
| 9 | VR ST | O | M62430(volume)strobe | L |
| 10 | VR/SURROUND DATA | O | M62430/LA2786/LV1016(Volume/surround) data | L |
| 11 | SEL/PLL CK | O | NJU7312/LC72131(selector/PLL)clock | L |
| 12 | SEL ST | O | Selector IC strobe (NJU7312) | L |
| 13 | SEL/PLL DATA | O | NJU7312/LC72131(Selector/PLL)data | L |
| 14 | KR0 | I | Key return 0 | H : KEY ON |
| 15 | KR1 | I | Key return 1 | H : KEY ON |
| 16 | KR2 | I | Key return 2 | H : KEY ON |
| 17 | KR3 | I | Key return 3 | H : KEY ON |
| 18 | KR4 | I | Key return 4 | H : KEY ON |
| 19 | POLAR/PILOT | O | Tuner polar/pilot selection signal | H : POLAR L : PILOT |
| 20 | S.BUSY | I/O | 8/16 bit system busy | H : BUSY L : READY |
| 21 | S.DATA | I/O | 8/16 bit system data | — |
| *22 | S.LEVEL(RDS) | I | Signal level | — |
| 23 | STEREO | I | Stereo signal detection | L : STEREO ON |
| 24 | SD | I | Synchronized signal detection | L : SD ON |
| *25 | E2PCK | O | E2Prom clock signal | — |
| *26 | E2P DATA | I/O | E2Prom data signal | — |
| 27 | SW CK | O | M62429(sub woofer) clock | H |
| 28 | SW DA | O | M62429(sub woofer) data | H |
| 29 | CE | I | AC OFF(MAIN POWER) detection Signal | L : AC OFF |
| 30 | RESET | I | Microprocessor reset | L : RESET ON |
| 31 | EXTAL | I | 4.19MHz oscillation | — |
| 32 | XTAL | O | 4.19MHz oscillation | — |
| 33 | Vss | — | GND | — |
| 34 | PLL CE | O | PLL strobe | L : CE |
| 35 | AMUTE | O | Audio mute signal output | H : OFF L : ON |
| 36 | POWER | O | Power relay control | H : ON L : OFF |
| 37 | VIDEO3 | O | Video3 (front Aux) ON/OFF output | H : ON L : OFF |
| 38 | BCLASS | O | A high efficiency amp ON/OFF control | H : OFF L : ON |
| 39 | TMUTE | O | Tuner mute control | L : MUTE ON |
| 40 | SUB MUTE | O | Sub mute signal output | H : OFF L : ON |
| 41 | SP.B | O | Speaker B relay control | H : ON L : OFF |
| 42 | SP.A | O | Speaker A relay control | H : ON L : OFF |
| 43 | SRS | O | SRS 3D LED control output | H : ON L : OFF |
| 44 | STAND BY | O | Stand by LED control output | H : ON L : OFF |
| 45 | S1 | O | FL Segment 1 | H : ON |
| 46 | S2 | O | FL Segment 2 | H : ON |
| 47 | S3/KS8 | O | FL Segment 3/Key scan8 | H : ON |
| 48 | S4/KS7 | O | FL Segment 4/Key scan7 | H : ON |
| 49 | S5/KS6 | O | FL Segment 5/Key scan6 | H : ON |
| 50 | S6/KS5 | O | FL Segment 6/Key scan5 | H : ON |

106VR/107VR/KR-797/897/V6090/V7090

CIRCUIT DESCRIPTION

| Pin No. | Pin name | I/O | Description | Active |
|---------|----------|-----|-----------------------------------|-------------------|
| 51 | S7/KS4 | O | FL Segment 7/Key scan4 | H : ON |
| 52 | S8/KS3 | O | FL Segment 8/Key scan3 | H : ON |
| 53 | S9/KS2 | O | FL Segment 9/Key scan2 | H : ON |
| 54 | S10/KS1 | O | FL Segment 10/Key scan1 | H : ON |
| 55 | S11 | O | FL Segment 11 | H : ON |
| 56 | S12 | O | FL Segment 12 | H : ON |
| 57 | S13 | O | FL Segment 13 | H : ON |
| 58 | S14 | O | FL Segment 14 | H : ON |
| 59 | S15 | O | FL Segment 15 | H : ON |
| 60 | S16 | O | FL Segment 16 | H : ON |
| 61 | 10G | O | FL grid 10 | — |
| 62 | 9G | O | FL grid 9 | — |
| 63 | 8G | O | FL grid 8 | — |
| 64 | 7G | O | FL grid 7 | — |
| 65 | 6G | O | FL grid 6 | — |
| 66 | 5G | O | FL grid 5 | — |
| 67 | 4G | O | FL grid 4 | — |
| 68 | 3G | O | FL grid 3 | — |
| 69 | 2G | O | FL grid 2 | — |
| 70 | 1G | O | FL grid 1 | — |
| 71 | VFDP | — | FL drive power supply (-30V) | — |
| 72 | VDD | — | Microprocessor power supply (+5V) | — |
| 73 | NC | — | Microprocessor power supply (+5V) | — |
| 74 | VOL A | I | Volume encoder input A | — |
| 75 | VOL B | I | Volume encoder input B | — |
| 76 | SEL A | I | Selector encoder input A | — |
| 77 | SEL B | I | Selector encoder input B | — |
| * 78 | RDS CK | I | RDS clock | — |
| * 79 | RDS DATA | I | RDS data | — |
| 80 | PROTECT | I | Protection signal input | H : PROTECTION ON |

* E/T/Q type only, other types unused.

The RDS PTY AF search always corresponds to a span search of 100kHz. Therefore, a span search of 50kHz cannot be performed.

106VR/107VR/KR-797/897/V6090/V7090

ADJUSTMENT

FM SECTION INPUT SELECTOR : FM MODE

X05-470X-XX

| NO. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|-----|---------------------|---|---|------------------|--------------------------------|-------------------------------|------|
| 1 | DISCRIMINATOR | (A) 98 MHz, 60dBμ (ANT INPUT) 1 kHz, ±40 kHz DEV : E/T/Q TYPE 1 kHz, ±75 kHz DEV (OTHER TYPE) | Connect a DC voltmeter between pin 1 and pin2 of CN2. | MONO 98.0 MHz | L31 L32 (EXCEPT K/P) | 0V Minimum distortion. | (a) |
| 2 | DISTORTION (STEREO) | (B) 98 MHz, 60dBμ (ANT INPUT) 1 kHz, ±40 kHz DEV : E/T/Q TYPE 1 kHz, ±67.5 kHz DEV PILOT ±7.5 kHz DEV OTHER TYPE | (E) | AUTO 98.0 MHz | T 1 (A1) | Minimum distortion. | (a) |

X05-4690-XX

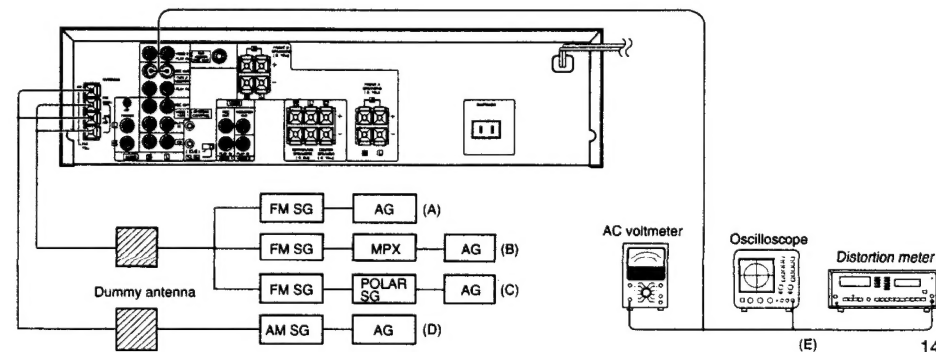
| NO. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|-----|---------------------|--|-----------------|------------------|------------------|---------------------|------|
| 1 | DISTORTION (STEREO) | (B) 98 MHz, 60dBμ (ANT INPUT) 1 kHz, ±40 kHz DEV PILOT: ±7.5 kHz DEV | (E) | AUTO 98.0 MHz | T1 (A1) | Minimum distortion. | (a) |

POLAR UNIT

X04-1313-xx Q TYPE (65MHz-74MHz BAND)

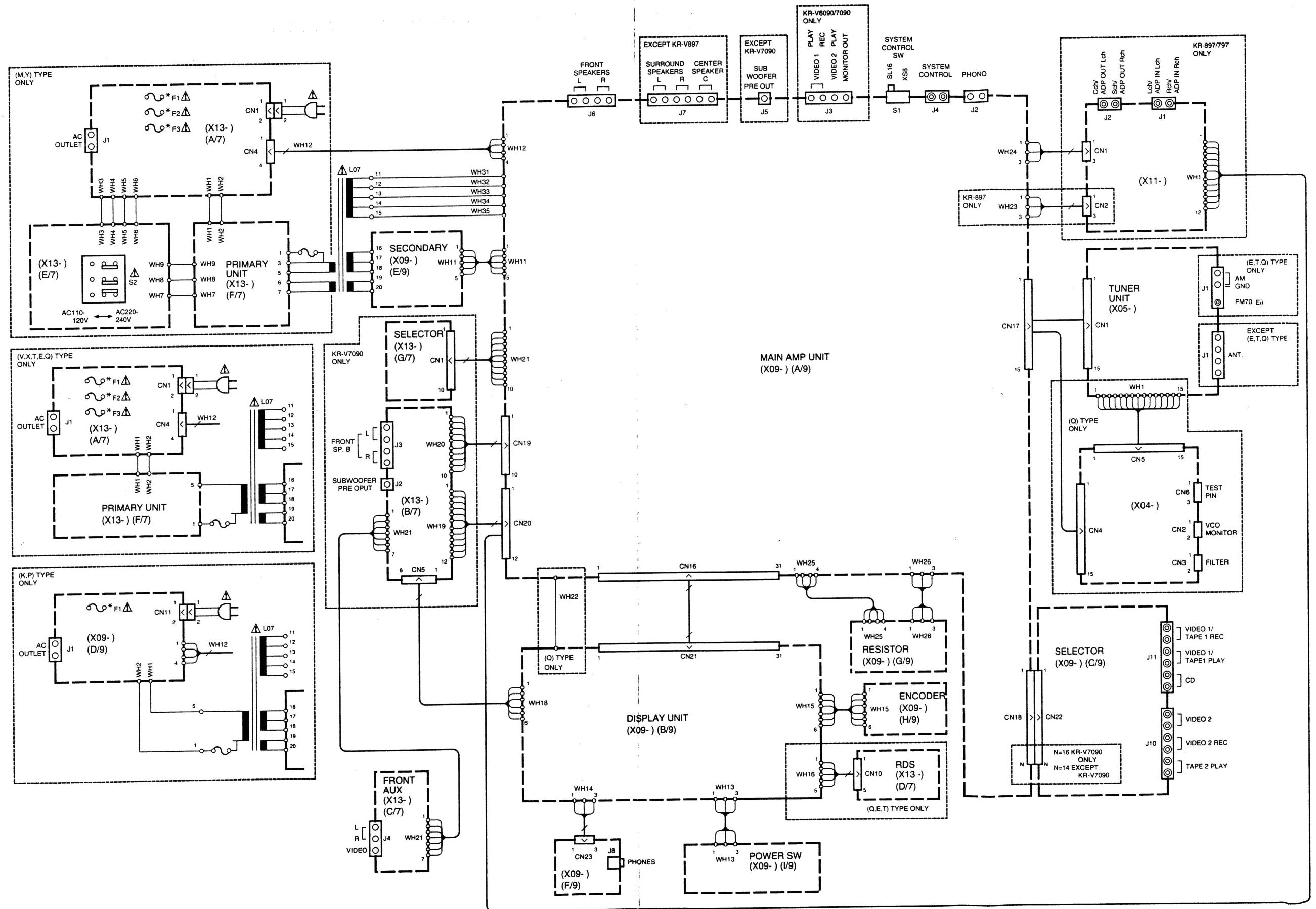
| NO. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|-----|------------|---|---|----------------|------------------|---|------|
| 1 | VCO | (C) 69 MHz, 60 dBμ (ANT INPUT) 1 kHz, 0 kHz DEV SUB, 0 kHz DEV | Connect a frequency counter to VCO monitor (CN2). | AUTO 69 MHz | VR 2 | Adjust it the frequency counter reads 31.25 kHz ±100 kHz. | |
| 2 | SEPARATION | (C) 69 MHz, 60 dBμ (ANT INPUT) 1 kHz, 40 kHz DEV SUB, 10 kHz DEV Select : L or R | Connect a oscilloscope to TUNER OUT(CN6). | AUTO 69 MHz | TC 1 | Minimum crosstalk. | |
| 3 | SEPARATION | (C) SAME AS ABOVE | Connect a oscilloscope to TUNER OUT(CN6). | AUTO 69 MHz | VR 1 | Minimum crosstalk. | |

INSTRUMENTS CONNECTION



106VR/107VR/KR-797/897/V6090/V7090 106VR/107VR/KR-797/897/V6090/V7090

WIRING DIAGRAM



1

2

3

4

5

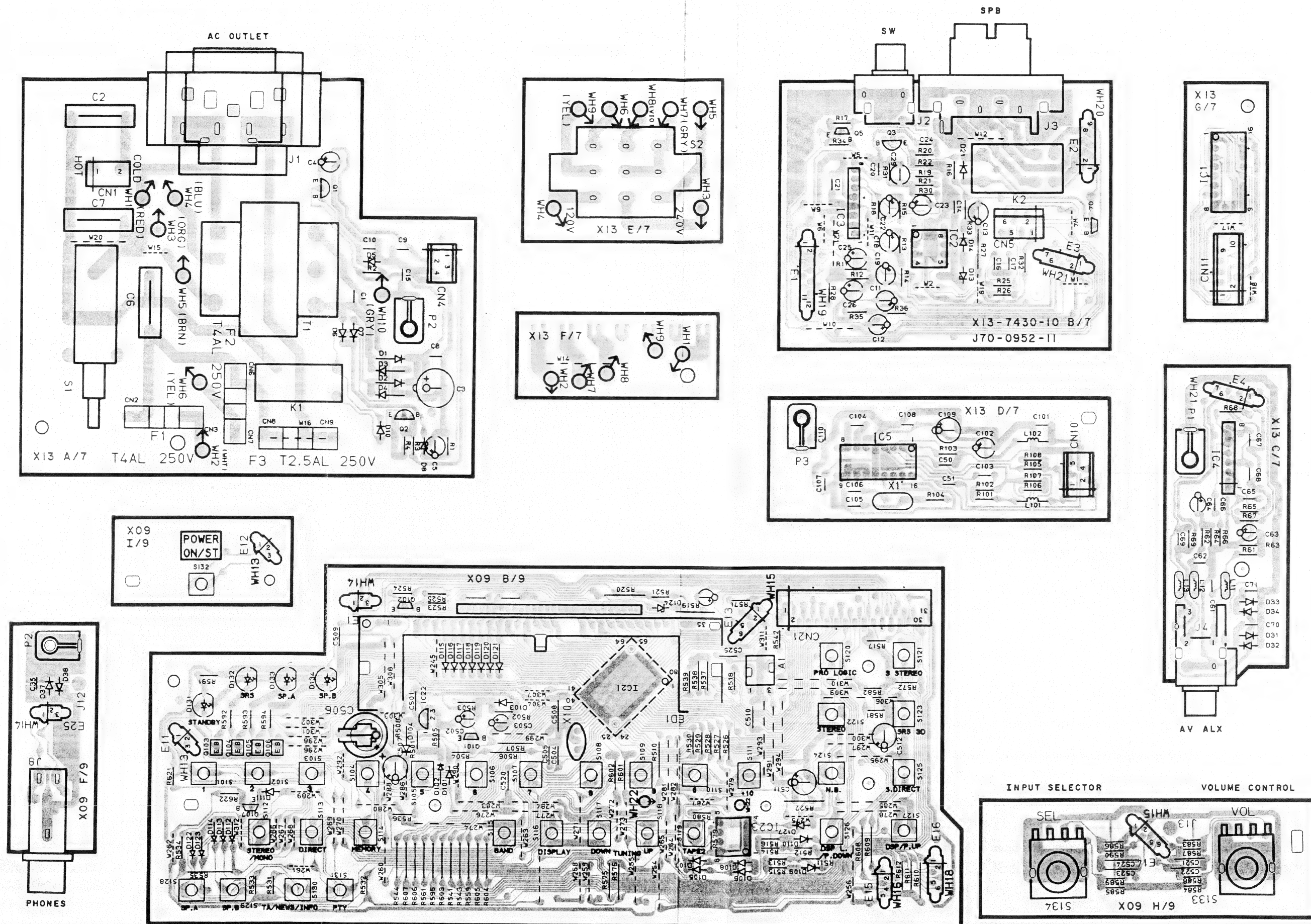
6

7



19

PC BOARD (Component side view)



Refer to the schematic diagram for the values of resistors and capacitors.

(K,P,T,E TYPE)
X09-A/9
-CN17



(Q TYPE
X09-A/9
-CN17

A

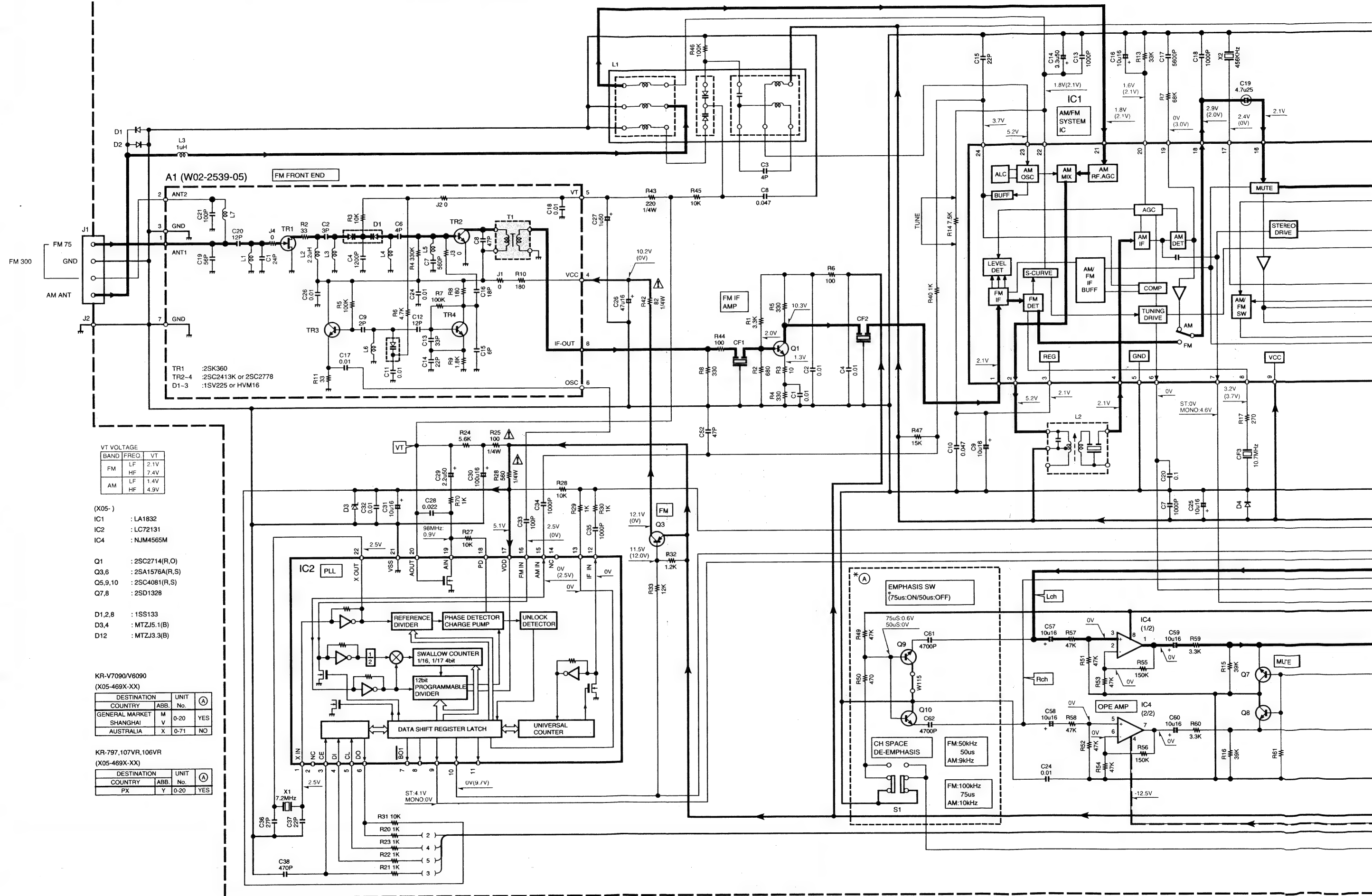
KR-V6090/897/797,107VR,106VR(K) (1/4)

106VR/107VR/KR-797/897/V6090/V7090)

Y05-3280-10

KENWOOD

(X05-469X-XX) : M,V,X,Y TYPE



AE

AF

AG

AH

AI

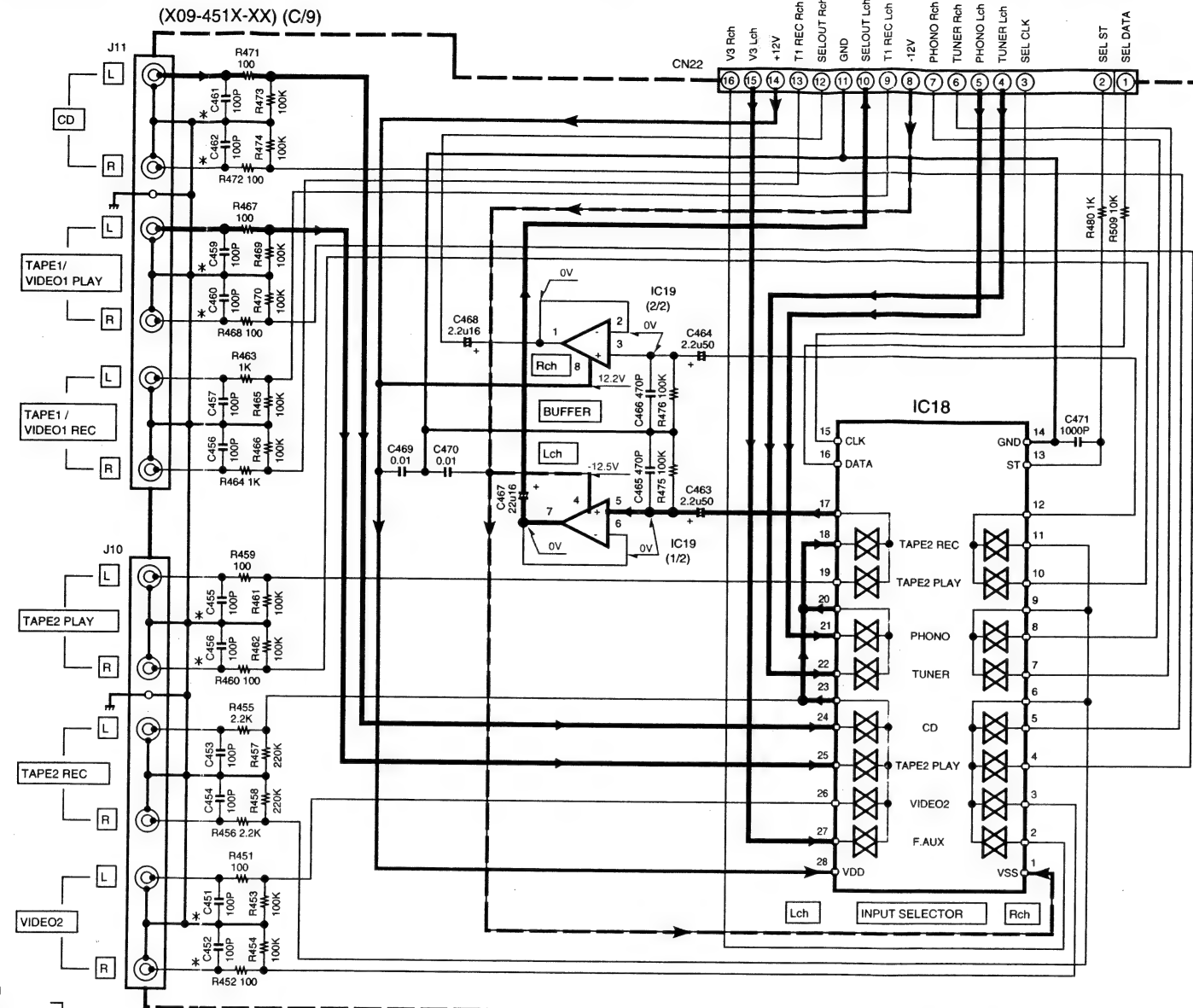
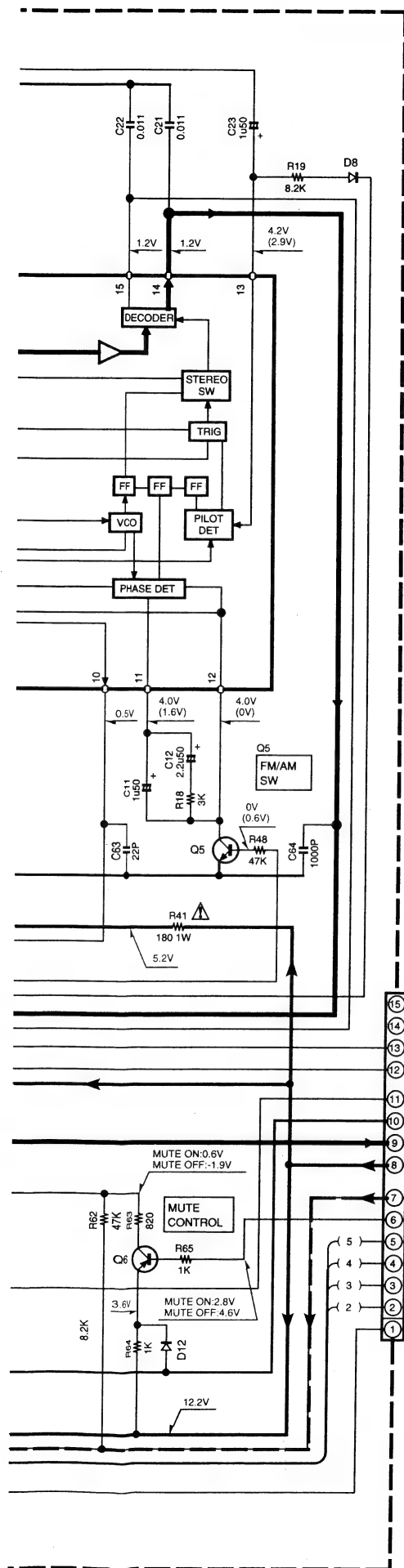
AJ

AK

AL

AM

AN



KR-V7090 (X09-451X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | C451,452,455, 456,459-462 |
|----------------|---------|------|----------|---------------------------|
| GENERAL MARKET | M | V | 0-22 | NO |
| SHANGHAI | X | 0-72 | | |

KR-V6090 (X09-451X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | C451,452,455, 456,459-462 |
|----------------|---------|------|----------|---------------------------|
| GENERAL MARKET | M | V | 0-21 | NO |
| SHANGHAI | X | 0-71 | | |
| AUSTRALIA | T | 2-71 | | YES |
| U.K. | E | 3-81 | | |
| RUSSIA | Q | | | |

KR-897 (X09-451X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | C451,452,455, 456,459-462 |
|-------------|---------|------|----------|---------------------------|
| U.S.A. | K | P | 0-12 | NO |
| CANADA | Y | 0-22 | | |

KR-797 (X09-451X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | C451,452,455, 456,459-462 |
|-------------|---------|------|----------|---------------------------|
| U.S.A. | K | P | 0-12 | NO |
| CANADA | Y | 2-91 | | |

(X09-)

IC18 : NJU7313AL

IC19 : NJM4565D-D

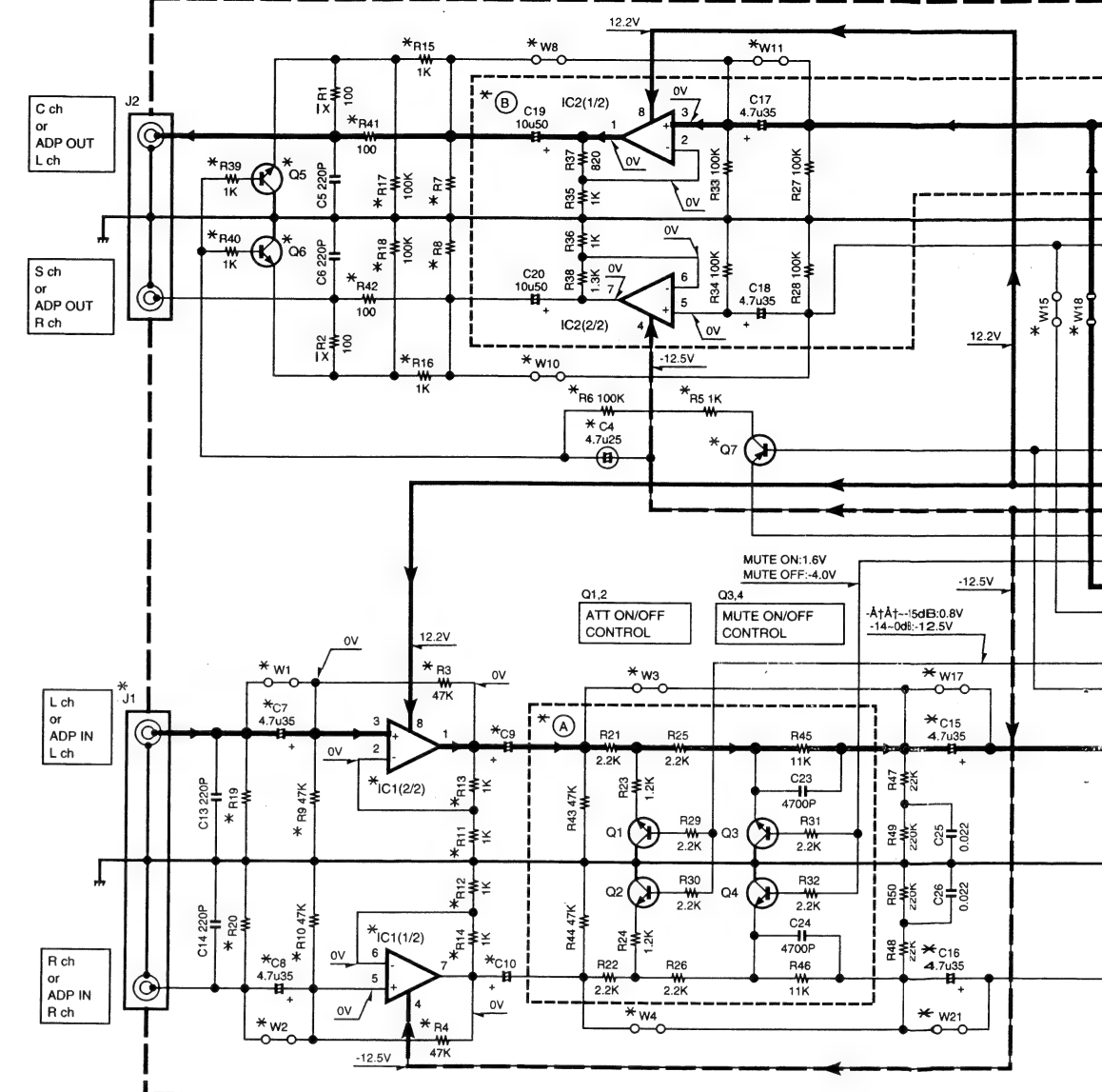
107VR (X09-451X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | C451,452,455, 456,459-462 |
|-------------|---------|------|----------|---------------------------|
| U.S.A. | K | P | 0-11 | NO |
| CANADA | Y | 0-22 | | |

106VR (X09-451X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | C451,452,455, 456,459-462 |
|-------------|---------|------|----------|---------------------------|
| U.S.A. | K | P | 0-10 | NO |
| CANADA | Y | 0-21 | | |

(X11-3710-1X) : KR-897,797 ONLY



X11-371X-XX

| MODEL NAME | UNIT No. | A | B | C4 | C9,10 | C7,8, 15,16 | R1-6,15-18, 39,40 | R7,8, 19,20 | R9-14, 41,42 | IC1 | Q5-7 | D1,2 | CN2 | W1-4,14, 17,20,21 | W8,10,11, 15,18 | J1 |
|------------|----------|-----|-----|-----|--------|-------------|-------------------|-------------|--------------|-----|------|------|-----|-------------------|-----------------|-------------|
| KR-897 | 0-10 | NO | YES | YES | 47u35 | NO | YES | 100K | NO | NO | YES | YES | YES | YES | NO | E63-0195-05 |
| KR-797 | 0-11 | YES | NO | NO | 4.7u35 | YES | NO | 47K | YES | YES | NO | NO | NO | NO | YES | E63-1004-05 |

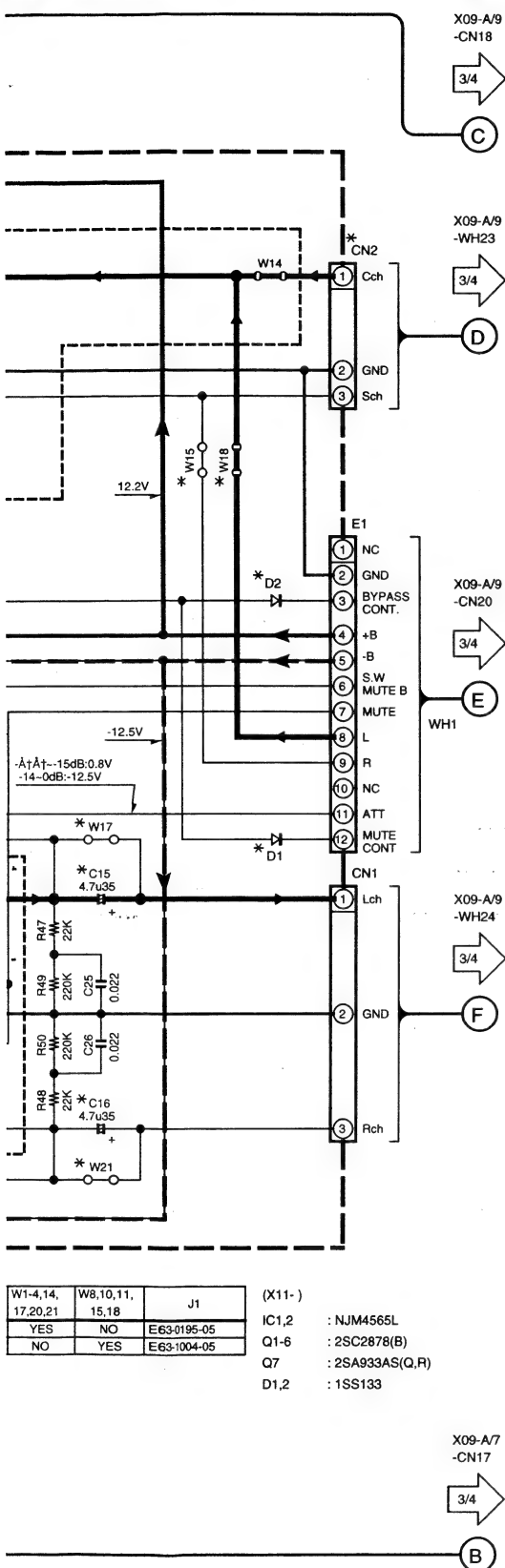
— SIGNAL LINE
 — GND LINE
 — +B LINE
 - - - -B LINE

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading measured in the AM mode.

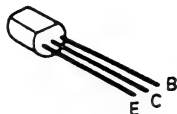
| MODE | CARRIER | MODULATION | | ANT INPUT |
|------|--------------|------------|------------------------------|-----------|
| | | FREQUENCY | DEVIATION | |
| FM | 98MHz | 1kHz | STEREO 67.5kHz 7.5kHz(Pilot) | 60dB |
| AM | 1000(999)kHz | 400Hz | MONO 30% MOD | 60dB |

KR-V7090/V6090/797,

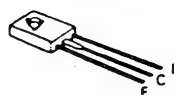


KR-V7090/V6090/797,107VR,106VR(M) (2/4)

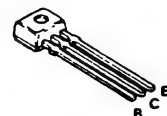
2SA1534A
2SA992
2SC1845
2SC2003
2SC2631
2SC2878
2SC3940A



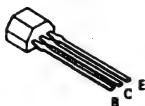
2SC2590



2SA1175



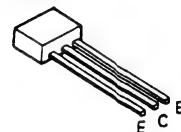
DTC124ESA
DTC143TSA
2SC1740S



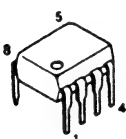
2SC2714
2SC4081
2SD1328



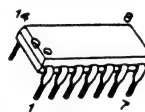
UN4212



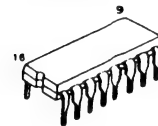
NJM4565D
NJM4565D-D



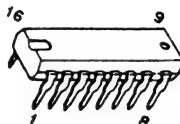
NJM2279D



TC4052BP



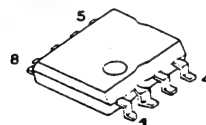
SAA6579



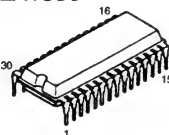
NJM4580D-D



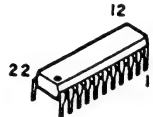
NJM2904M
NJM4565M



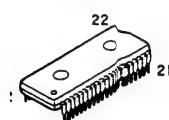
LA1836



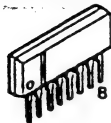
LC72131



LA2786



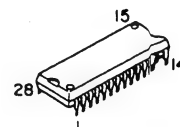
NJM4565L
NJM4565L-D



LA1832



NJU7313AL



KR-V7090 (X09-451X-XX)

| DESTINATION | | UNIT | A | B | C | D | E7 | E9 | E10 | E22 | CN18 | CN19 | CN20 | C17 | C46 | C128,132 | R73 | R74,76,82,87,88 | R140 | R145 | R180 | R211 | R259 | R260 | R261 | Q18 | W46,187 | W176 | W177 | W185 | W205 | W228 | W230 | WH21 | WH23 | WH24 | WH26 | WH27 | WH28 | 1-E23-0047-04 | | |
|----------------|-----|------|-----|-----|-----|-----|----|----|-----|-----|-------|------|------|---------|-----|----------|-----|-----------------|------|------|---------|------|------|---------|------|-----|---------|------|------|------|------|------|------|--|---|--|---|---|------|---------------|----|----|
| COUNTRY | ABT | | | | | | | | | | | | | | | | | 136,158,181,182 | R140 | R145 | R180 | R211 | R259 | R260 | R261 | Q18 | W46,187 | W176 | W177 | W185 | W205 | W228 | W230 | WH21 <td>WH23<td>WH24<td>WH26<td>WH27<td>WH28</td><td>1-E23-0047-04</td></td></td></td></td> | WH23 <td>WH24<td>WH26<td>WH27<td>WH28</td><td>1-E23-0047-04</td></td></td></td> | WH24 <td>WH26<td>WH27<td>WH28</td><td>1-E23-0047-04</td></td></td> | WH26 <td>WH27<td>WH28</td><td>1-E23-0047-04</td></td> | WH27 <td>WH28</td> <td>1-E23-0047-04</td> | WH28 | 1-E23-0047-04 | | |
| GENERAL MARKET | M | 0-21 | YES | YES | YES | YES | NO | NO | NO | YES | 16PIN | YES | YES | 4700u80 | NO | YES | NO | 8.2K 2W | 2.7K | NO | 8.2K 2W | 91 | 68 | 8.2K 2W | YES | NO | NO | NO | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO | NO |
| SHANGHAI | V | 0-22 | YES | YES | YES | YES | NO | NO | NO | YES | 16PIN | YES | YES | 4700u80 | NO | YES | NO | 8.2K 2W | 2.7K | NO | 8.2K 2W | 91 | 68 | 8.2K 2W | YES | NO | NO | NO | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO | NO |
| AUSTRALIA | X | 0-72 | YES | YES | YES | YES | NO | NO | NO | YES | 16PIN | YES | YES | 4700u80 | NO | YES | NO | 8.2K 2W | 2.7K | NO | 8.2K 2W | 91 | 68 | 8.2K 2W | YES | NO | NO | NO | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO | NO |

KR-V6090 (X09-451X-XX)

| DESTINATION | COUNTRY | ABB | UNIT No. | A | B | C | D | E7 | E9 | E10 | E22 | CN18 | CN19 | CN20 | C17 | C46 | C128,132 | R73 | R74,76,82,87,88 | R140 | R145 | R180 | R211 | R259 | R260 | R261 | Q18 | W46,187 | W176 | W185 | W205 | W228 | W230 | WH21 | WH23 | WH24 | WH26 | WH27 | WH28 | 1:E23-0047-04 | | |
|----------------|---------|-----|----------|-----|-----|-----|-----|----|----|-----|-----|-------|------|------|---------|-----|----------|-----|-----------------|---------|------|------|---------|------|------|---------|-----|---------|------|------|------|------|------|------|------|------|------|------|------|---------------|----|-----|
| GENERAL MARKET | M | | 0-21 | YES | YES | YES | YES | NO | NO | NO | YES | 14PIN | NO | NO | 4700u80 | NO | NO | YES | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | 8.2K 2W | NO | NO | YES | NO | YES | NO | YES | NO | NO | NO | YES | YES | NO | NO | NO | NO |
| SHANGHAI | V | | 0-21 | YES | YES | YES | YES | NO | NO | NO | YES | 14PIN | NO | NO | 4700u80 | NO | NO | YES | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | 8.2K 2W | NO | NO | YES | NO | YES | NO | YES | NO | NO | NO | YES | YES | NO | NO | NO | NO |
| AUSTRALIA | X | | 0-71 | YES | YES | YES | YES | NO | NO | NO | YES | 14PIN | NO | NO | 4700u80 | NO | NO | YES | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | 8.2K 2W | NO | NO | YES | NO | YES | NO | YES | NO | NO | NO | YES | YES | NO | NO | NO | NO |
| U.K. | T | | 2-71 | YES | YES | YES | YES | NO | NO | NO | YES | 14PIN | NO | NO | 4700u71 | YES | NO | YES | NO | 6.8K 2W | 4.7K | YES | 6.8K 2W | 120 | 120 | 6.8K 2W | NO | NO | YES | NO | YES | YES | NO | NO | NO | NO | YES | YES | NO | NO | NO | NO |
| EUROPE | E | | 3-81 | YES | YES | YES | YES | NO | NO | NO | YES | 14PIN | NO | NO | 4700u71 | YES | NO | YES | NO | 6.8K 2W | 4.7K | YES | 6.8K 2W | 120 | 120 | 6.8K 2W | NO | NO | YES | NO | YES | YES | NO | NO | NO | NO | YES | YES | NO | NO | NO | YES |
| RUSSIA | O | | 3-81 | YES | YES | YES | YES | NO | NO | NO | YES | 14PIN | NO | NO | 4700u71 | YES | NO | YES | NO | 6.8K 2W | 4.7K | YES | 6.8K 2W | 120 | 120 | 6.8K 2W | NO | NO | YES | NO | YES | YES | NO | NO | NO | NO | YES | YES | NO | NO | NO | YES |

KR-897 (X09-451X-XX)

| DESTINATION | | UNIT No. | A | B | C | D | E7 | E9 | E10 | E22 | CN18 | CN19 | CN20 | C17 | C46 | C128,132 | R73 | R74,76,82,87,88 | R140 | R145 | R180 | R211 | R259 | R260 | R261 | Q18 | W46,187 | W176 | W177 | W185 | W205 | W228 | W230 | WH21 | WH23 | WH24 | WH26 | WH27 | WH28 | 1.E23-0047-04 | | | | |
|-------------|-----|----------|----|----|-----|-----|-----|-----|-----|-----|-------|------|------|---------|-----|----------|-----|-----------------|---------|------|------|---------|------|------|------|-----|---------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|-----|----|----|--|
| COUNTRY | ABB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U.S.A. | K | 0-13 | NO | NO | YES | YES | YES | YES | YES | NO | 14PIN | NO | NO | 4700u80 | NO | NO | NO | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | NO | NO | YES | NO | YES | YES | NO | YES | NO | YES | YES | NO | YES | YES | NO | NO | YES | NO | NO | |
| CANADA | P | 0-13 | NO | NO | YES | YES | YES | YES | YES | NO | 14PIN | NO | NO | 4700u80 | NO | NO | NO | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | NO | NO | YES | NO | YES | YES | NO | YES | NO | YES | YES | NO | YES | YES | NO | NO | YES | NO | NO | |

KR-797 (X09-451X-XX)

| DESTINATION | | UNIT NO. | A | B | C | D | E7 | E9 | E10 | E22 | CN18 | CN19 | CN20 | C17 | C46 | C128,132 | R73 | R74,76,82,87,88 | R140 | R141 | R144 | R180 | R211 | R259 | R260 | R261 | Q18 | W46,187 | W176 | W177 | W185 | W205 | W228 | W229 | W230 | WH21 | WH23 | WH24 | WH26 | WH27 | WH28 | 1:E23-0047-04 | | | |
|-------------|------|----------|-----|----|----|-----|----|-----|-----|-----|-------|------|------|---------|-----|----------|-----|-----------------|---------|------|------|---------|------|------|---------|------|-----|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|----|----|----|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U.S.A. | K | 0-12 | YES | NO | NO | YES | NO | YES | NO | YES | 14PIN | NO | YES | 4700u80 | NO | NO | YES | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | 8.2K 2W | YES | NO | YES | NO | NO | YES | NO | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO |
| CANADA | P | 0-12 | YES | NO | NO | YES | NO | YES | NO | YES | 14PIN | NO | YES | 4700u80 | NO | NO | YES | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | 8.2K 2W | YES | NO | YES | NO | NO | YES | NO | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO |
| PX | Y | 0-21 | YES | NO | NO | YES | NO | YES | NO | YES | 14PIN | NO | YES | 4700u80 | NO | NO | YES | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | 8.2K 2W | YES | NO | YES | NO | NO | YES | NO | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO |

107VR (X09-451X-XX)

| DESTINATION | | UNIT NO. | A | B | C | D | E7 | E9 | E10 | E22 | CN18 | CN19 | CN20 | C17 | C46 | C128,132 | R73 | R74,76,82,87,88 | R140 | R145 | R180 | R211 | R259 | R260 | R261 | Q18 | W46,187 | W176 | W185 | W205 | W228 | W230 | WH21 | WH22 | WH24 | WH26 | WH27 | WH28 | 1:E23-0047-04 | | |
|-------------|------|----------|-----|-----|-----|----|----|----|-----|-------|------|------|---------|-----|-----|----------|-----|-----------------|---------|------|------|---------|------|------|---------|---------|---------|------|------|------|------|------|------|------|------|------|------|------|---------------|----|----|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | 156,158,161,162 | R141 | R146 | | | | | 264 | 196,200 | 177 | | | | | | | | | | | | | | |
| U.S.A. | K | 0-11 | YES | YES | YES | NO | NO | NO | YES | 14PIN | YES | YES | 4700u80 | NO | YES | NO | YES | NO | 8.2K 2W | 2.7K | NO | 8.2K 2W | 91 | 68 | 8.2K 2W | YES | NO | NO | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO | NO |
| CANADA | P | 0-11 | YES | YES | YES | NO | NO | NO | YES | 14PIN | YES | YES | 4700u80 | NO | YES | NO | YES | NO | 8.2K 2W | 2.7K | NO | 8.2K 2W | 91 | 68 | 8.2K 2W | YES | NO | NO | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO | NO |
| PX | Y | 0-22 | YES | YES | YES | NO | NO | NO | YES | 14PIN | YES | YES | 4700u80 | NO | YES | NO | YES | NO | 8.2K 2W | 2.7K | NO | 8.2K 2W | 91 | 68 | 8.2K 2W | YES | NO | NO | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO | NO |

106VR (X09-451X-XX)

| DESTINATION | | UNIT No. | A | B | C | D | E7 | E9 | E10 | E22 | CN18 | CN19 | CN20 | C17 | C46 | C128,132 | R73 | R74,76,82,87,88, 156-158,161,162 | R140 | R141 | R145 | R180 | R211 | R259 | R260 | R261- 264 | Q18 | W46,187, 196,207 | W176 | W177 | W185 | W205 | W228 | W229 | W230 | WH21 | WH23 | WH24 | WH26 | WH27 | WH28 | 1.E23-0047-04 | |
|-------------|-----|----------|-----|-----|-----|-----|----|----|-----|-----|-------|------|------|---------|-----|----------|-----|-------------------------------------|---------|------|------|---------|------|------|---------|--------------|-----|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|----|
| COUNTRY | A88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U.S.A. | P | 0-10 | YES | YES | YES | YES | NO | NO | NO | YES | 14PIN | NO | NO | 4700u80 | NO | NO | YES | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | 8.2K 2W | NO | NO | YES | NO | YES | NO | YES | NO | YES | NO | YES | YES | NO | NO | NO | NO | NO | NO |
| CANADA | P | 0-10 | YES | YES | YES | YES | NO | NO | NO | YES | 14PIN | NO | NO | 4700u80 | NO | NO | YES | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | 8.2K 2W | NO | NO | YES | NO | YES | NO | YES | NO | YES | NO | YES | YES | NO | NO | NO | NO | NO | NO |
| PX | Y | 0-21 | YES | YES | YES | YES | NO | NO | NO | YES | 14PIN | NO | NO | 4700u80 | NO | NO | YES | NO | 8.2K 2W | 2.7K | YES | 8.2K 2W | 91 | 68 | 8.2K 2W | NO | NO | YES | NO | YES | NO | YES | NO | YES | YES | NO | NO | YES | YES | NO | NO | NO | NO |

KR-V7090 (X13-743X-XX)

| DESTINATION | COUNTRY | UNIT No. | X13-B7 | X13-C7 | X13-G7 |
|----------------|---------|----------|--------|--------|--------|
| GENERAL MARKET | M | 0-21 | YES | YES | YES |
| SHANGHAI | V | 2-11 | YES | YES | YES |
| AUSTRALIA | X | 0-71 | YES | YES | YES |

KR-V6090 (X13-744X-XX)

| DESTINATION | COUNTRY | UNIT No. | X13-B7 | X13-C7 | X13-G7 |
|----------------|---------|----------|--------|--------|--------|
| GENERAL MARKET | M | 0-20 | NO | NO | NO |
| SHANGHAI | V | 2-11 | NO | NO | NO |
| AUSTRALIA | X | 0-71 | NO | NO | NO |
| U.K. | E | 0-51 | NO | NO | NO |
| EUROPE | E | 0-51 | NO | NO | NO |
| RUSSIA | Q | 2-71 | NO | NO | NO |

KR-797 (X13-744X-XX)

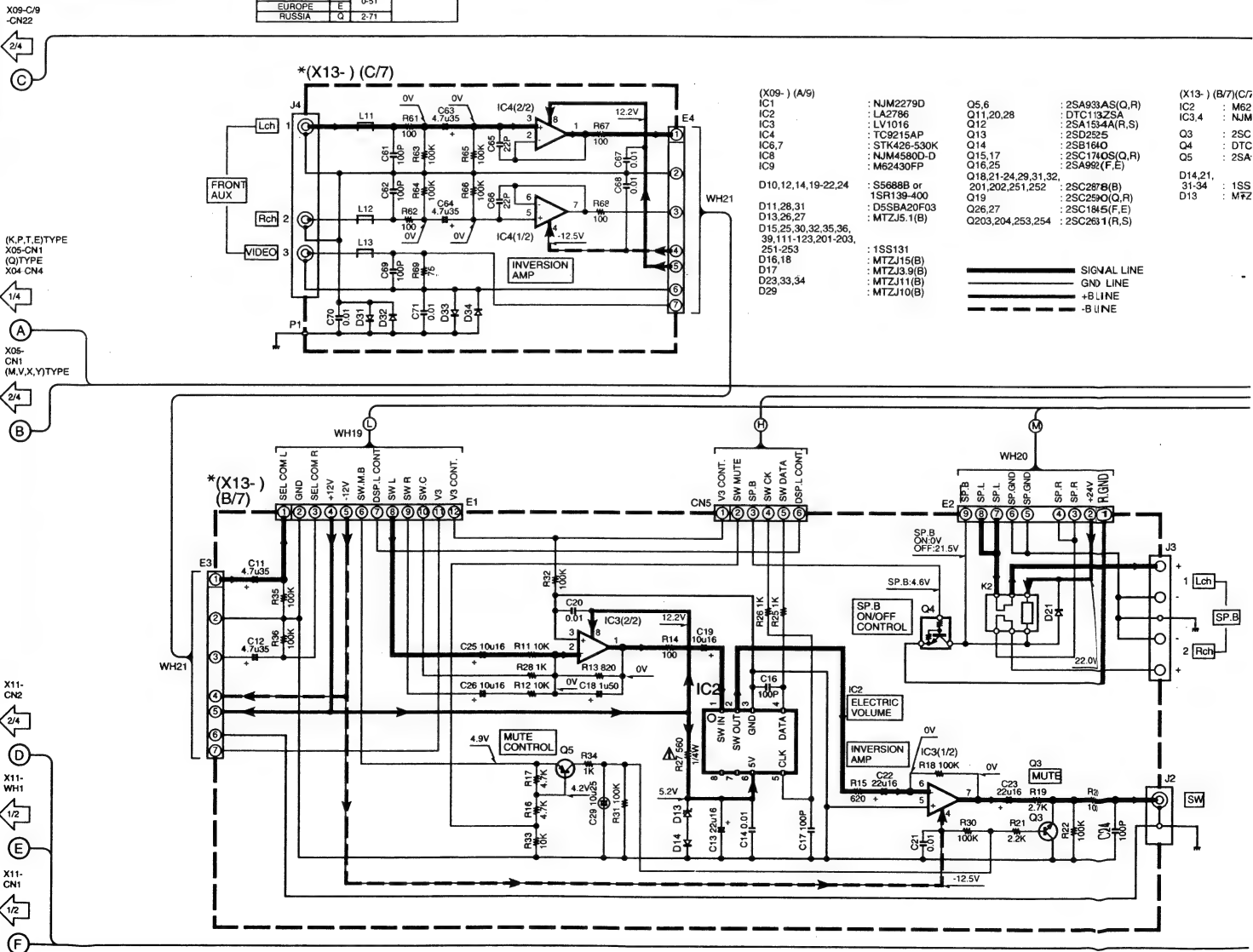
| DESTINATION | COUNTRY | UNIT No. | X13-B7 | X13-C7 | X13-G7 |
|-------------|---------|----------|--------|--------|--------|
| U.S.A. | K | 0-10 | YES | YES | YES |
| CANADA | P | 0-10 | YES | YES | YES |
| PX | Y | 2-91 | YES | YES | YES |

107VR (X13-743X-XX)

| DESTINATION | COUNTRY | UNIT No. | X13-B7 | X13-C7 | X13-G7 |
|-------------|---------|----------|--------|--------|--------|
| U.S.A. | K | 0-10 | YES | YES | YES |
| CANADA | P | 0-10 | YES | YES | YES |
| PX | Y | 2-91 | YES | YES | YES |

106VR (X13-744X-XX)

| DESTINATION | COUNTRY | UNIT No. | X13-B7 | X13-C7 | X13-G7 |
|-------------|---------|----------|--------|--------|--------|
| U.S.A. | K | 0-10 | YES | YES | YES |
| CANADA | P | 0-10 | YES | YES | YES |
| PX | Y | 2-91 | YES | YES | YES |



AX

AY

AZ

BA

BB

BC

BD

BE

BF

BG

BH

| WH23 | WH24 | WH25 | WH26 | WH27 | WH28 | 1:E23-0047-04 | F5.6 | F7.8 |
|------|------|------|------|------|------|---------------|------|------|
| NO | NO | YES | YES | NO | NO | | T1A1 | T5A1 |
| NO | NO | YES | YES | NO | NO | | 250V | 250V |
| NO | NO | YES | YES | NO | NO | | | |

| WH23 | WH24 | WH25 | WH26 | WH27 | WH28 | 1:E23-0047-04 | F5.6 | F7.8 |
|------|------|------|------|------|------|---------------|------|------|
| NO | NO | YES | YES | NO | NO | | T1A1 | T5A1 |
| NO | NO | YES | YES | NO | NO | | 250V | 250V |
| NO | NO | YES | YES | NO | NO | | | |

| WH23 | WH24 | WH25 | WH26 | WH27 | WH28 | 1:E23-0047-04 | F5.6 | F7.8 |
|------|------|------|------|------|------|---------------|------|------|
| YES | YES | NO | NO | YES | NO | | 1A | 6.3A |
| YES | YES | NO | NO | YES | NO | | 125V | 125V |

| WH23 | WH24 | WH25 | WH26 | WH27 | WH28 | 1:E23-0047-04 | F5.6 | F7.8 |
|------|------|------|------|------|------|---------------|------|------|
| NO | YES | YES | NO | NO | NO | | 1A | 6.3A |
| NO | YES | YES | NO | NO | NO | | 125V | 125V |

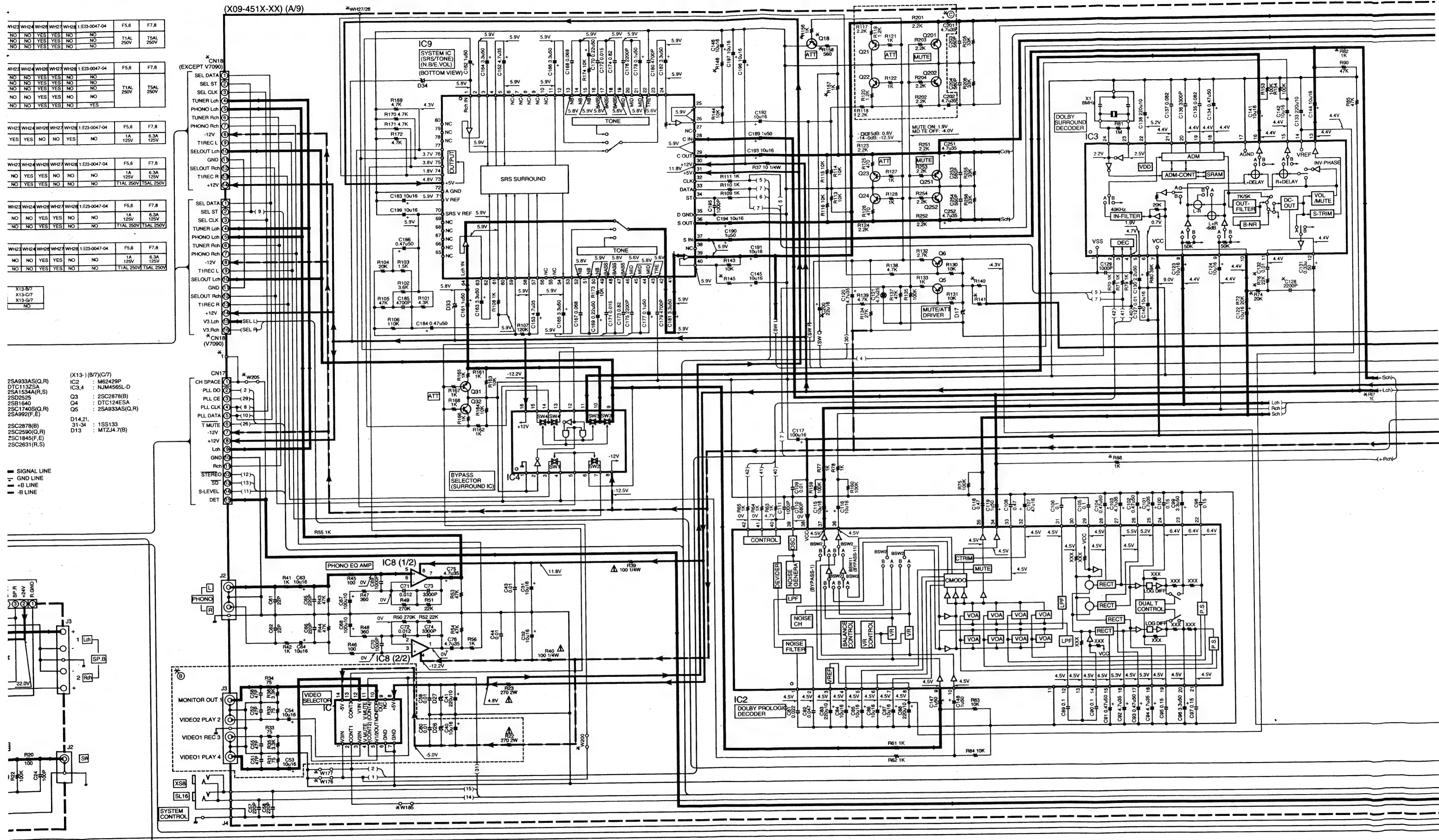
| WH23 | WH24 | WH25 | WH26 | WH27 | WH28 | 1:E23-0047-04 | F5.6 | F7.8 |
|------|------|------|------|------|------|---------------|------|------|
| NO | NO | YES | YES | NO | NO | | T1A1 | T5A1 |
| NO | NO | YES | YES | NO | NO | | 250V | 250V |

| WH23 | WH24 | WH25 | WH26 | WH27 | WH28 | 1:E23-0047-04 | F5.6 | F7.8 |
|------|------|------|------|------|------|---------------|------|------|
| NO | NO | YES | YES | NO | NO | | 1A | 6.3A |
| NO | NO | YES | YES | NO | NO | | 125V | 125V |

| |
|--------|
| X13-B7 |
| X13-C7 |
| X13-G7 |

| | |
|---------------|--------------------|
| 2SA933AS(Q,R) | (X13-)(B7)(C7) |
| DTC1132SA | IC2 : M62429P |
| 2SA1534A(R,S) | IC3,4 : NJM4565L-D |
| 2SD2525 | Q3 : 2SC2878(B) |
| 2SB1640 | Q4 : DTC124ESA |
| 2SC1740S(Q,R) | Q5 : 2SA933AS(Q,R) |
| 2SA992(F,E) | D14,21 : 1SS133 |
| 2SC2878(B) | 31-34 : MTZJ4.7(B) |
| 2SC2590(Q,R) | |
| 2SC1845(F,E) | |
| 2SC2631(R,S) | |

■ SIGNAL LINE
■ GND LINE
■ +B LINE
■ -B LINE



BI

BJ

BK

BL

BM

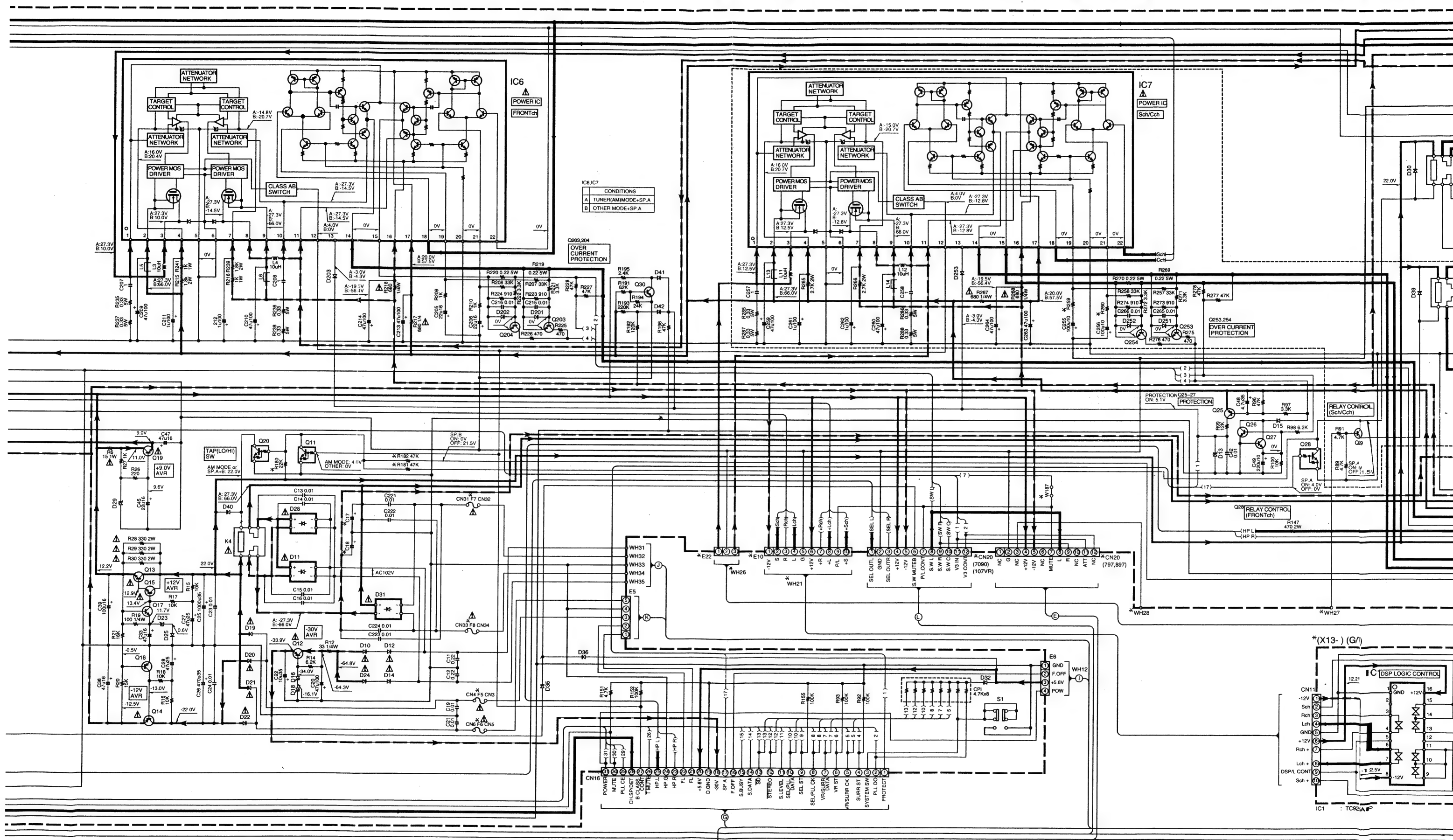
BN

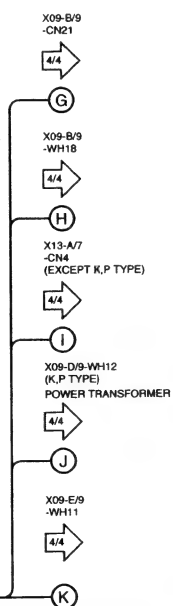
BO

BP

BQ

BR





KR-V7090/V6090/897/797/107VR/106VR(M) (3/4)

KENWOOD

X09-A/9

-CN16

3/4

G

X13-B/7

-CN5

3/4

H

KR-V7090 (X13-743X-XX)

| DESTINATION | UNIT | WH3-9 | S1 | S2 | W14, W15 | W16 | W19 | T1 | F1 | F2 | F3 | CN6,7 | CN8,9 | C2,6,7 | X13-D/7 | J1 |
|----------------|---------|-------|-----|-----|----------|-----|-----|-------------|----------|-----|-----|-------|-------|-------------|---------|-------------|
| COUNTRY | ABB No. | | | | | | | | | | | | | | | |
| GENERAL MARKET | M 0-21 | YES | YES | YES | NO | YES | NO | L07-2128-05 | T4AL 250 | YES | YES | YES | NO | C91-1488-05 | NO | E03-0305-05 |
| SHANGHAI | V 2-11 | | | | | | | | T4A 250 | | | | | | | E03-0337-05 |
| AUSTRALIA | X 0-71 | NO | YES | NO | YES | YES | NO | L07-2129-05 | T4AL 250 | NO | NO | NO | NO | | YES | E03-0325-05 |

KR-V6090 (X13-744X-XX)

| DESTINATION | UNIT | WH3-9 | S1 | S2 | W14, W15 | W16 | W19 | T1 | F1 | F2 | F3 | CN6,7 | CN8,9 | C2,6,7 | X13-D/7 | J1 |
|----------------|---------|-------|-----|-----|----------|-----|-----|-------------|-------------|-----|-----|-------|-------|-------------|---------|-------------|
| COUNTRY | ABB No. | | | | | | | | | | | | | | | |
| GENERAL MARKET | M 0-20 | YES | YES | YES | NO | YES | NO | L07-2128-05 | T4AL 250 | YES | YES | YES | NO | C91-1488-05 | NO | E03-0305-05 |
| SHANGHAI | V 2-11 | | | | | | | | | | | | | | | E03-0337-05 |
| AUSTRALIA | X 0-71 | | | | | | | | | | | | | | | E03-0325-05 |
| U.K. | T 0-51 | NO | YES | NO | YES | YES | NO | L07-2129-05 | T3.15AL 250 | NO | NO | NO | NO | | YES | E03-0191-05 |
| EUROPE | E 2-71 | | | | | | | | | YES | YES | YES | YES | | | E03-0305-05 |
| RUSSIA | Q 2-71 | | | | | | | | | | | | | | | |

KR-797 (X13-744X-XX)

| DESTINATION | UNIT | WH3-9 | S1 | S2 | W14, W15 | W16 | W19 | T1 | F1 | F2 | F3 | CN6,7 | CN8,9 | C2,6 | C7 | X13-D/7 | J1 |
|----------------|---------|-------|----|-----|----------|-----|-----|-------------|----------|-----|----|-------|-------|-------------|----|---------|-------------|
| COUNTRY | ABB No. | | | | | | | | | | | | | | | | |
| GENERAL MARKET | Y 2-92 | YES | NO | YES | NO | YES | NO | L07-2128-05 | T4AL 250 | YES | NO | YES | NO | C91-1488-05 | NO | NO | E03-0316-05 |

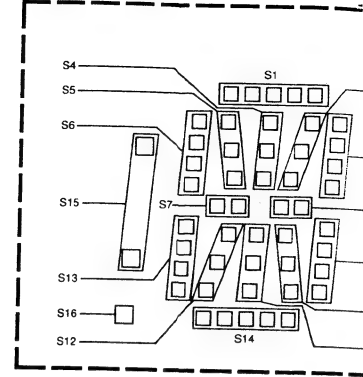
107VR (X13-743X-XX)

| DESTINATION | UNIT | WH3-9 | S1 | S2 | W14, W15 | W16 | W19 | T1 | F1 | F2 | F3 | CN6,7 | CN8,9 | C2,6 | C7 | X13-D/7 | J1 |
|----------------|---------|-------|----|-----|----------|-----|-----|-------------|----------|-----|----|-------|-------|-------------|----|---------|-------------|
| COUNTRY | ABB No. | | | | | | | | | | | | | | | | |
| GENERAL MARKET | Y 2-91 | YES | NO | YES | NO | YES | NO | L07-2128-05 | T4AL 250 | YES | NO | YES | NO | C91-1488-05 | NO | NO | E03-0316-05 |

106VR (X13-744X-XX)

| DESTINATION | UNIT | WH3-9 | S1 | S2 | W14, W15 | W16 | W19 | T1 | F1 | F2 | F3 | CN6,7 | CN8,9 | C2,6 | C7 | X13-D/7 | J1 |
|----------------|---------|-------|----|-----|----------|-----|-----|-------------|----------|-----|----|-------|-------|-------------|----|---------|-------------|
| COUNTRY | ABB No. | | | | | | | | | | | | | | | | |
| GENERAL MARKET | Y 2-91 | YES | NO | YES | NO | YES | NO | L07-2128-05 | T4AL 250 | YES | NO | YES | NO | C91-1488-05 | NO | NO | E03-0316-05 |

(X09-451X-XX) (B/9)



EXCEPT (K,P) TYPE

X09-A/9

3/4

J

X09-A/9

-WH11

3/4

K

WH11

3/4

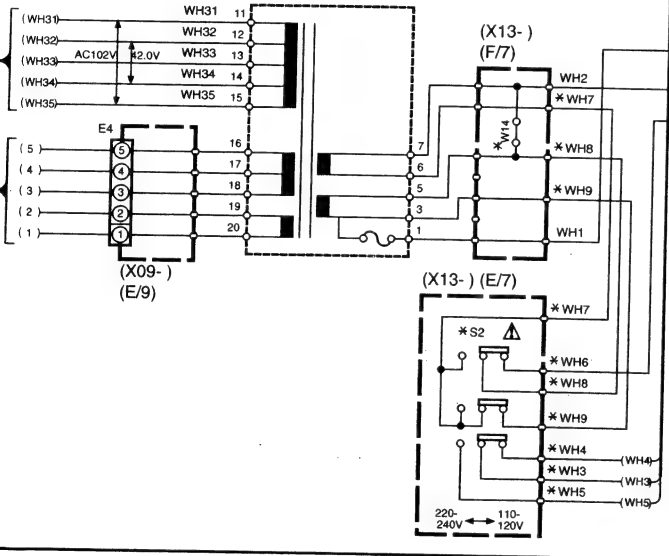
X09-A/9

-WH12

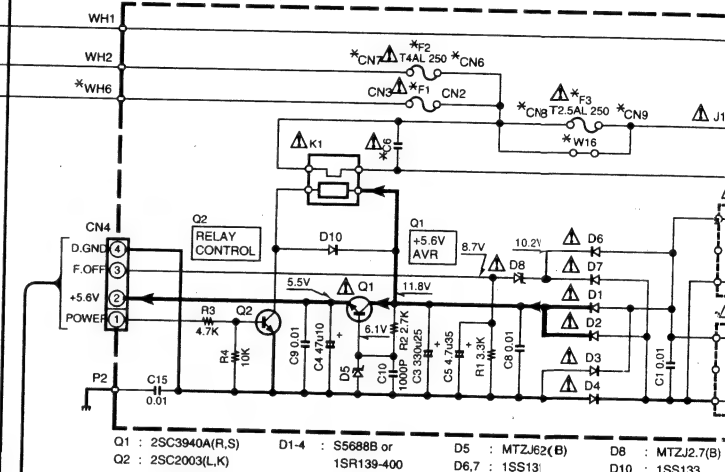
3/4

I

POWER TRANSFORMER



(X13-74XX-XX) (A/7)



Q1 : 2SC3940A(R,S) D1-4 : S5688B or 1SR139-400 D5 : MTZJ62(B) D6,7 : 1SS13
 Q2 : 2SC2003(L,K) D10 : 1SS133

(K,P) TYPE

X09-A/9

3/4

J

X09-A/9

-WH11

3/4

K

WH11

3/4

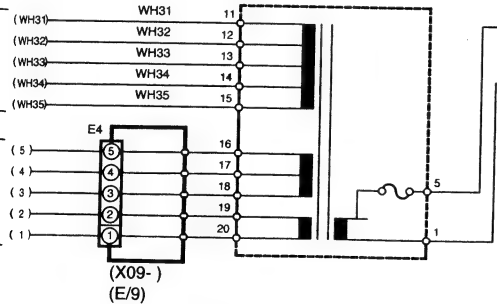
X09-A/9

-WH12

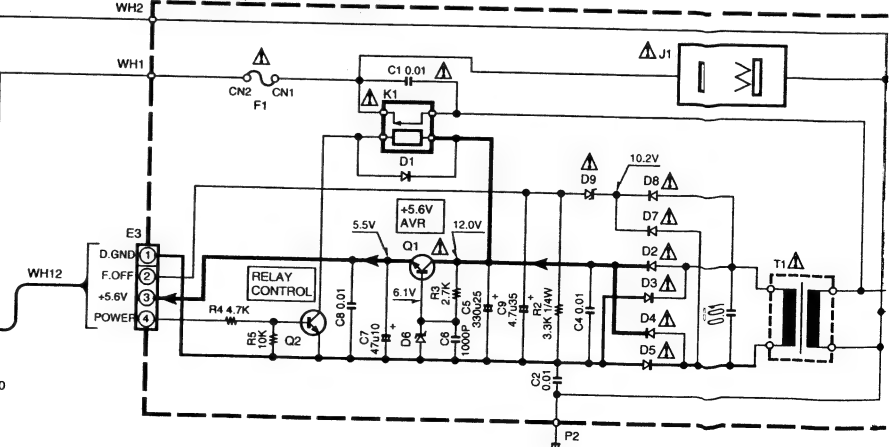
3/4

I

POWER TRANSFORMER

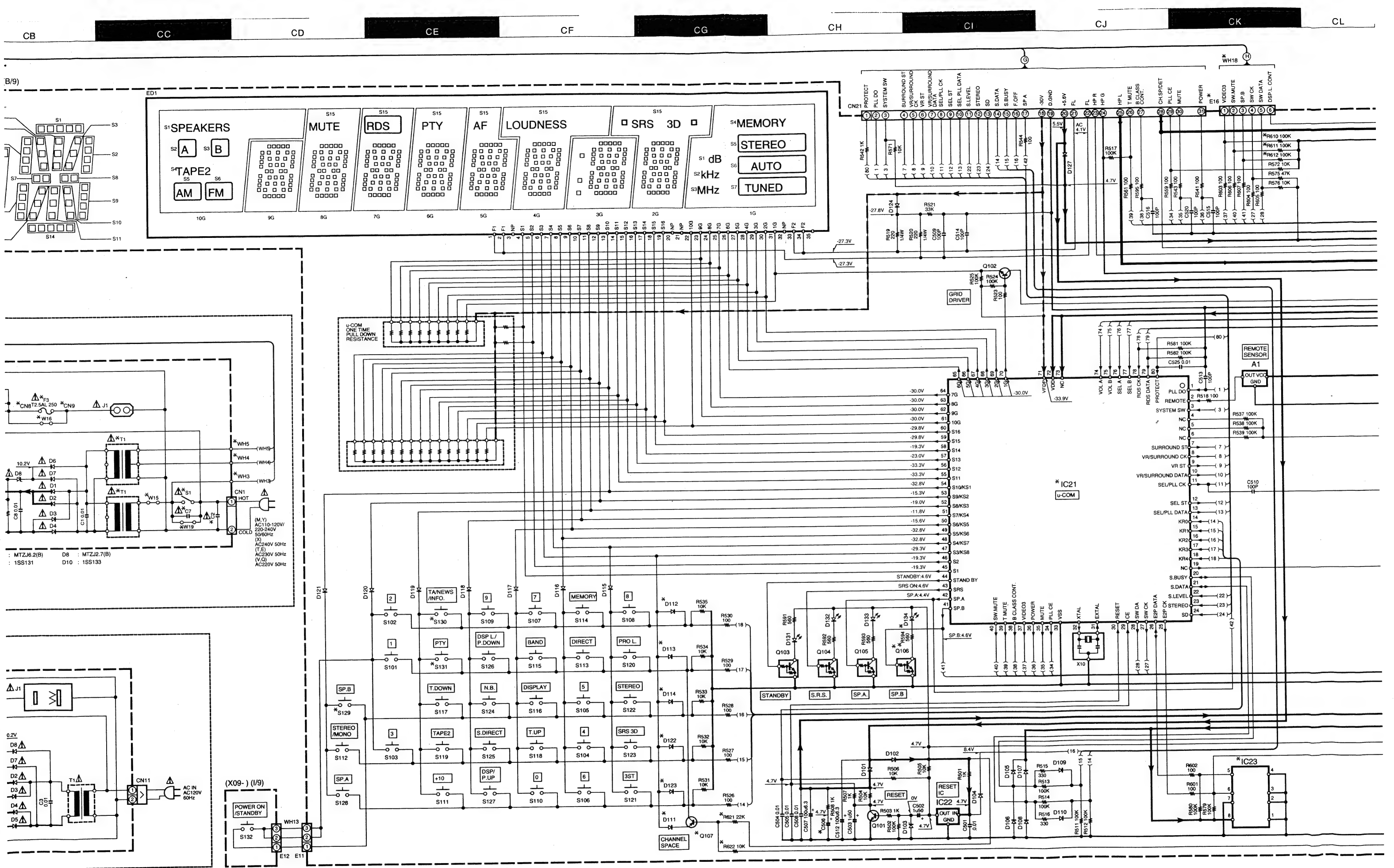


(X09-) (D/9) K,P TYPE ONLY



Q1 : 2SC3940A(R,S) D1,7,8 : 1SS131
 Q2 : 2SC2003(L,K) D2-5 : S5688B or 1SR139-400
 D6 : MTZJ62(B) D9 : MTZJ2.7(B)

CAUTION: For components. For measurements.



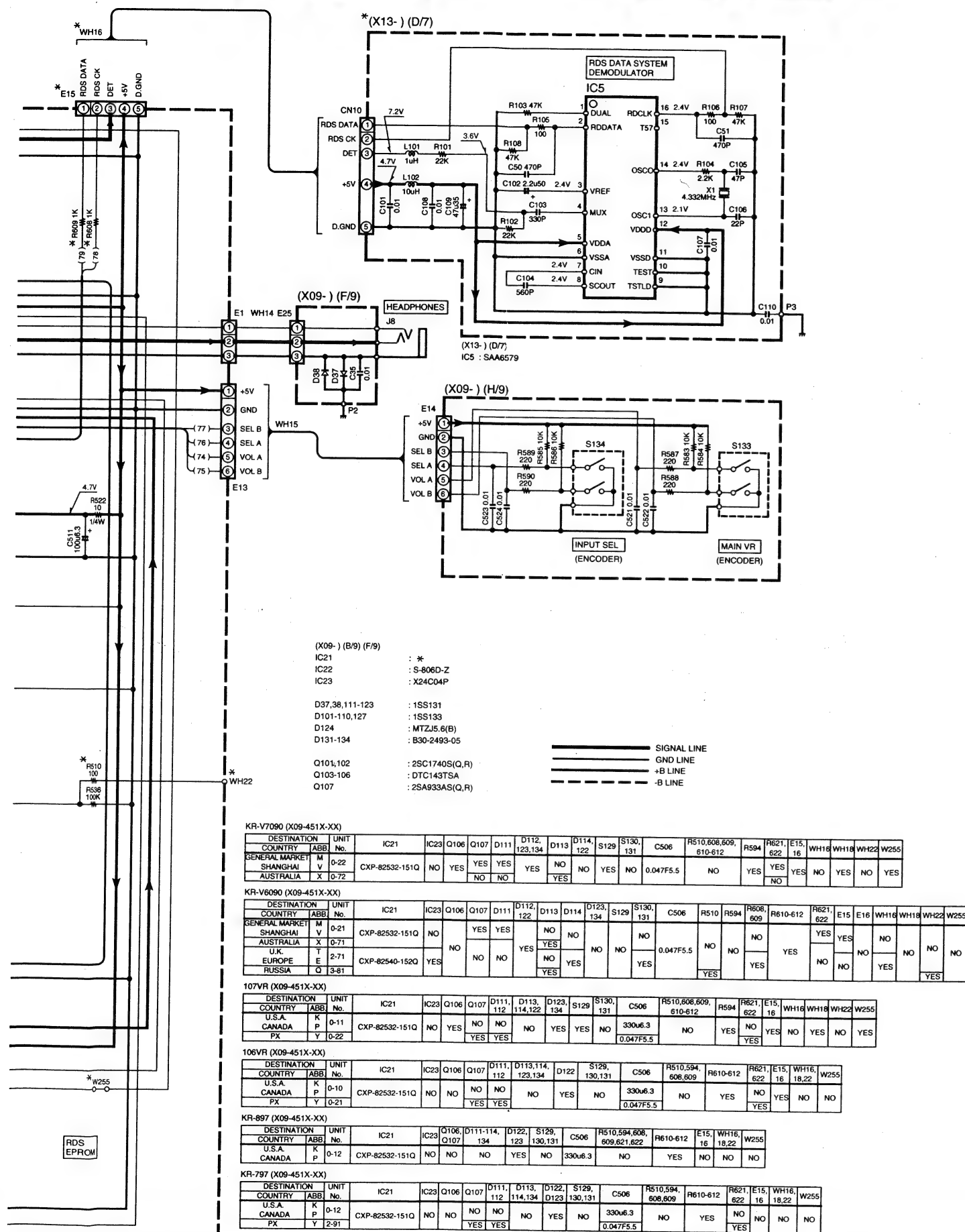
CM

CN

CO

CP

CQ



KR-V7090/6090/897/797,107VR,106VR(M) (4/4)

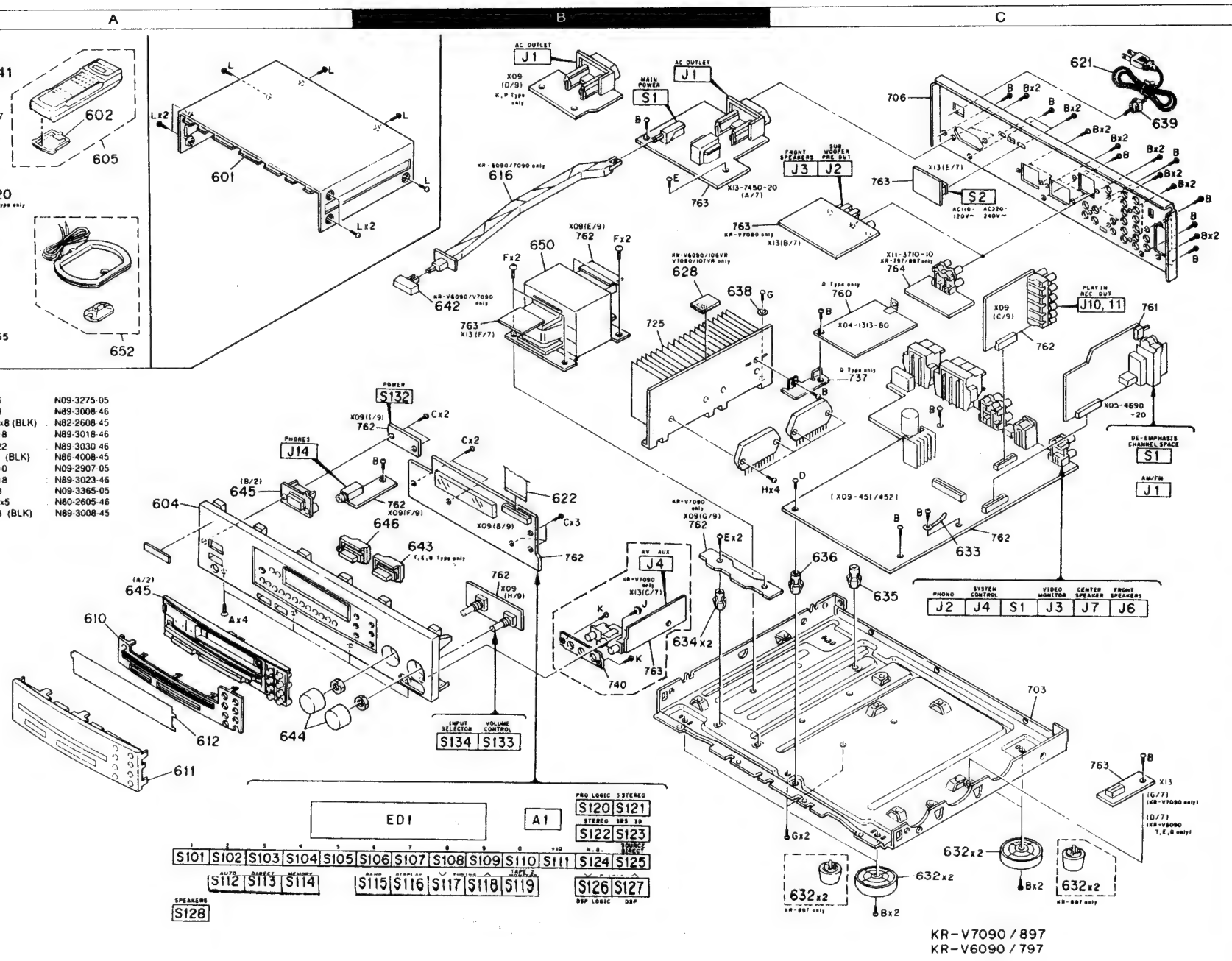
106VR/107VR/KR-797/897/V6090/V7090

Y05-3280-10

KENWOOD

106VR/107VR/KR-797/897/V6090/V7090

EXPLODED VIEW (UNIT)



KR-V7090 / 897
KR-V6090 / 797

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1

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------------------|----------|-----------|-------------|-------------------------------|--------------|----------|
| KR-V6090/106VR | | | | | | |
| 601 | 1A | | A01-3378-01 | METALLIC CABINET | | |
| 602 | 1A | | A09-0356-08 | BATTERY COVER | | |
| 604 | 2A | * | A60-1020-01 | PANEL | KPY | |
| 604 | 2A | * | A60-1021-01 | PANEL | MX | |
| 604 | 2A | * | A60-1022-01 | PANEL | TEQ | |
| 605 | 1A | | A70-1107-05 | REMOTE CONTROLLER ASSY | | |
| 610 | 2A | | B07-2298-02 | ESCUTCHEON | | |
| 611 | 2A | | B10-2285-02 | FRONT GLASS | KPYMX | |
| 611 | 2A | | B10-2286-02 | FRONT GLASS | TEQ | |
| 612 | 2A | | B11-0339-03 | COLOR FILTER | | |
| | | | B46-0096-53 | WARRANTY CARD | X | |
| | | | B46-0197-00 | QUESTIONNAIRE CARD | | |
| | | | B46-0310-03 | WARRANTY CARD | K | |
| | | * | B46-0329-03 | WARRANTY CARD | TEQ | |
| | | * | B46-0330-03 | WARRANTY CARD | V | |
| | | * | B46-0336-03 | WARRANTY CARD | KY | |
| | | | B58-0513-04 | CAUTION CARD (PRESET220-240) | P | |
| | | | B58-0964-13 | CAUTION CARD | Y | |
| | | * | B58-0965-13 | CAUTION CARD | KY | |
| | | * | B58-0966-13 | CAUTION CARD | XT | |
| | | * | B58-0967-03 | CAUTION CARD | MVE | |
| | | | B58-1526-03 | CAUTION CARD | P | |
| | | * | B59-1104-00 | SERVICE DIRECTORY | Q | |
| | | | B60-2983-00 | INSTRUCTION MANUAL (ENGLISH) | Y | |
| | | | B60-2984-00 | INSTRUCTION MANUAL (FRENCH) | KPY | |
| | | | B60-2985-00 | INSTRUCTION MANUAL (FRE/DUT) | P | |
| | | | B60-2986-00 | INSTRUCTION MANUAL (ITA/SPA) | E | |
| | | | B60-2987-00 | INSTRUCTION MANUAL (GERMAN) | E | |
| | | | B60-2988-00 | INSTRUCTION MANUAL (ENGLISH) | T | |
| | | | B60-2989-00 | INSTRUCTION MANUAL (SPANISH) | M | |
| | | * | B60-2990-00 | INSTRUCTION MANUAL (CHINESE) | V | |
| | | | B60-2991-00 | INSTRUCTION MANUAL (TAIWAN) | M | |
| | | | B60-2992-00 | INSTRUCTION MANUAL (RUSS/POL) | Q | |
| | | | B60-3072-00 | INSTRUCTION MANUAL (ENGLISH) | MX | |
| 616 | 1B | | D21-1829-13 | EXTENSION SHAFT | MXTEQ | |
| Δ 620 | 1A | | E03-0115-05 | AC PLUG ADAPTER | M | |
| Δ 621 | 1C | | E30-2605-05 | AC POWER CORD | Y | |
| Δ 621 | 1C | | E30-2717-05 | AC POWER CORD | X | |
| Δ 621 | 1C | | E30-2721-05 | AC POWER CORD | T | |
| Δ 621 | 1C | | E30-2824-05 | AC POWER CORD | V | |
| Δ 621 | 1C | | E30-2842-05 | AC POWER CORD | MEQ | |
| Δ 621 | 1C | | E30-2849-05 | AC POWER CORD | KP | |
| 622 | 2B | | E35-1679-05 | FLAT CABLE | | |
| 628 | 1B | | G11-2258-04 | CUSHION | | |
| | | | H10-7250-02 | POLYSTYRENE FOAMED FIXTURE | EQ | |
| | | | H10-7250-02 | POLYSTYRENE FOAMED FIXTURE | KPYMX | |
| | | | H10-7251-02 | POLYSTYRENE FOAMED FIXTURE | EQ | |
| | | | H10-7251-02 | POLYSTYRENE FOAMED FIXTURE | KPYMX | |
| | | | H10-7252-02 | POLYSTYRENE FOAMED FIXTURE | T | |
| | | | H10-7253-02 | POLYSTYRENE FOAMED FIXTURE | | |

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2

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------------------|----------|-----------|-------------|-------------------------------|--------------|----------|
| | | | H11-0070-04 | POLYSTYRENE FOAMED BOARD | MXTEQ | |
| | | | H13-0231-04 | CARTON BOARD | X | |
| | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | EQ | |
| | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | KPYMX | |
| | | | H25-0391-04 | PROTECTION BAG | | |
| | | | H25-0651-04 | PROTECTION BAG (0232) | T | |
| | | * | H50-2161-04 | ITEM CARTON CASE | T | |
| | | * | H50-2162-04 | ITEM CARTON CASE | KPY | |
| | | * | H50-2271-04 | ITEM CARTON CASE | M | |
| | | * | H50-2272-04 | ITEM CARTON CASE | V | |
| | | * | H50-2307-04 | ITEM CARTON CASE | XE | |
| | | * | H50-2308-04 | ITEM CARTON CASE | Q | |
| 632 | 2C | | J02-1148-13 | FOOT (D=46,H=14.5) | | |
| 633 | 2C | | J19-2808-05 | HOLDER | | |
| 634 | 2B | * | J19-5786-04 | UNIT HOLDER | | |
| 635 | 2C | | J19-5787-04 | UNIT HOLDER | | |
| 636 | 2C | | J19-5788-04 | UNIT HOLDER | | |
| 638 | 1B | | J30-0466-04 | SPACER | Q | |
| 638 | 1B | | J30-0466-04 | SPACER | YMXTE | |
| Δ 639 | 2C | | J42-0083-05 | POWER CORD BUSHING | | |
| | | | J61-0070-05 | WIRE BAND | Q | |
| | | | J61-0070-05 | WIRE BAND | YMXTE | |
| | | | J61-0307-05 | WIRE BAND | | |
| 642 | 1B | | K27-2185-04 | KNOB (BUTTON) | MXTEQ | |
| 643 | 2B | | K29-6321-04 | KNOB | TEQ | |
| 644 | 2A | | K29-6322-04 | KNOB | | |
| 645 | 2A | | K29-6508-02 | KNOB | | |
| 646 | 2B | | K29-6509-04 | KNOB | | |
| Δ 650 | 1B | * | L07-2247-05 | POWER TRANSFORMER | KP | |
| Δ 650 | 1B | * | L07-2248-05 | POWER TRANSFORMER | YM | |
| Δ 650 | 1B | * | L07-2249-05 | POWER TRANSFORMER | X | |
| Δ 650 | 1B | * | L07-2267-05 | POWER TRANSFORMER | TE | |
| Δ 650 | 1B | * | L07-2293-05 | POWER TRANSFORMER | V | |
| Δ 650 | 1B | * | L07-2296-05 | POWER TRANSFORMER | Q | |
| 651 | 1A | | T90-0801-05 | LEAD WIRE ANTENNA | KPYMX | |
| 652 | 1A | | T90-0810-05 | LEAD WIRE ANTENNA | TEQ | |
| 652 | 1A | | T90-0820-05 | LOOP ANTENNA | | |
| KR-V7090/107VR | | | | | | |
| 601 | 1A | | A01-3378-01 | METALLIC CABINET | | |
| 602 | 1A | | A09-0356-08 | BATTERY COVER | | |
| 604 | 2A | * | A60-1017-01 | PANEL | KPY | |
| 604 | 2A | * | A60-1018-01 | PANEL | MX | |
| 605 | 1A | | A70-1107-05 | REMOTE CONTROLLER ASSY | | |
| 610 | 2A | | B07-2298-02 | ESCUTCHEON | | |
| 611 | 2A | * | B10-2284-02 | FRONT GLASS | | |
| 612 | 2A | | B11-0339-03 | COLOR FILTER | | |
| | | | B46-0096-53 | WARRANTY CARD | X | |
| | | | B46-0197-00 | QUESTIONNAIRE CARD | K | |
| | | * | B46-0329-03 | WARRANTY CARD | V | |
| | | * | B46-0330-03 | WARRANTY CARD | KY | |
| | | * | B46-0336-03 | WARRANTY CARD | P | |
| | | | B58-0513-04 | CAUTION CARD (PRESET220-240) | Y | |
| | | | B58-0964-13 | CAUTION CARD | KY | |

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PARTS LIST

106VR/107VR/KR-797/897/V6090/V7090

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3

| Ref. No | Add- ress | New Parts | Parts No. | Description | Desti- nation | Re- marks |
|-------------------|--------------|--------------|-------------|-------------------------------|------------------|--------------|
| - | | * | B58-0965-13 | CAUTION CARD | X | |
| - | | * | B58-0966-13 | CAUTION CARD | MV | |
| - | | * | B58-0967-03 | CAUTION CARD | P | |
| - | | * | B59-1104-00 | SERVICE DIRECTORY | Y | |
| - | | * | B60-2978-00 | INSTRUCTION MANUAL (ENGLISH) | KPY | |
| - | | * | B60-2979-00 | INSTRUCTION MANUAL (FRENCH) | P | |
| - | | * | B60-2980-00 | INSTRUCTION MANUAL (SPANISH) | M | |
| - | | * | B60-2981-00 | INSTRUCTION MANUAL (CHINESE) | V | |
| - | | * | B60-2982-00 | INSTRUCTION MANUAL (TAIWAN) | M | |
| - | | * | B60-3071-00 | INSTRUCTION MANUAL (ENGLISH) | MX | |
| 616 | 1B | | D21-1829-13 | EXTENSION SHAFT | MXV | |
| Δ 620 | 1A | | E03-0115-05 | AC PLUG ADAPTER | M | |
| Δ 621 | 1C | | E30-2605-05 | AC POWER CORD | Y | |
| Δ 621 | 1C | | E30-2717-05 | AC POWER CORD | X | |
| Δ 621 | 1C | | E30-2824-05 | AC POWER CORD | V | |
| Δ 621 | 1C | | E30-2842-05 | AC POWER CORD | M | |
| Δ 621 | 1C | | E30-2849-05 | AC POWER CORD | KP | |
| 622 | 2B | * | E35-1679-05 | FLAT CABLE | | |
| 628 | 1B | | G11-2258-04 | CUSHION | | |
| - | | | H10-7250-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H10-7251-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H11-0070-04 | POLYSTYRENE FOAMED BOARD | MXV | |
| - | | | H13-0231-04 | CARTON BOARD | X | |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | | | H25-0391-04 | PROTECTION BAG | | |
| - | | * | H50-2160-04 | ITEM CARTON CASE | KPY | |
| - | | * | H50-2269-04 | ITEM CARTON CASE | M | |
| - | | * | H50-2270-04 | ITEM CARTON CASE | V | |
| - | | * | H50-2306-04 | ITEM CARTON CASE | X | |
| 632 | 2C | | J02-1148-13 | FOOT (D=46,H=14.5) | | |
| 633 | 2C | | J19-2808-05 | HOLDER | | |
| 634 | 2B | * | J19-5786-04 | UNIT HOLDER | | |
| 635 | 2C | | J19-5787-04 | UNIT HOLDER | | |
| 636 | 2C | | J19-5788-04 | UNIT HOLDER | | |
| Δ 638 | 1B | | J30-0466-04 | SPACER | YMXV | |
| Δ 639 | 1C | | J42-0083-05 | POWER CORD BUSHING | | |
| - | | | J61-0070-05 | WIRE BAND | YMXV | |
| - | | | J61-0307-05 | WIRE BAND | | |
| 642 | 1B | | K27-2185-04 | KNOB (BUTTON) | MXV | |
| 643 | 2B | | K29-6321-04 | KNOB | | |
| 644 | 2A | | K29-6322-04 | KNOB | | |
| 645 | 2A | | K29-6508-02 | KNOB | | |
| Δ 650 | 1B | * | L07-2247-05 | POWER TRANSFORMER | KP | |
| Δ 650 | 1B | * | L07-2248-05 | POWER TRANSFORMER | YM | |
| Δ 650 | 1B | * | L07-2249-05 | POWER TRANSFORMER | X | |
| Δ 650 | 1B | * | L07-2293-05 | POWER TRANSFORMER | V | |
| 651 | 1A | | T90-0801-05 | LEAD WIRE ANTENNA | | |
| 652 | 1A | | T90-0820-05 | LOOP ANTENNA | | |
| KR-797/897 | | | | | | |
| 601 | 1A | | A01-3378-01 | METALLIC CABINET | | |
| 602 | 1A | | A09-0356-08 | BATTERY COVER | | |
| 604 | 2A | | A60-1087-01 | PANEL (KR-897) | KP | |

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4

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|---------------------------------|--------------|--------------|---------------|-------------------------------|------------------|--------------|
| 604 | 2A | * | A60-1088-01 | PANEL (KR-797) | KPY | |
| 605 | 1A | | A70-1107-05 | REMOTE CONTROLLER ASSY | | |
| 610 | 2A | | B07-2298-02 | ESCUTCHEON | | |
| 611 | 2A | | B10-2285-02 | FRONT GLASS | | |
| 612 | 2A | | B11-0339-03 | COLOR FILTER | | |
| - | | * | B46-0197-00 | QUESTIONNAIRE CARD | K | |
| - | | * | B46-0328-03 | WARRANTY CARD | KY | |
| - | | | B46-0336-03 | WARRANTY CARD | P | |
| - | | | B58-0513-04 | CAUTION CARD (PRESET220-240) | Y | |
| - | | | B58-0964-13 | CAUTION CARD | KY | |
| - | | * | B58-0967-03 | CAUTION CARD | P | |
| - | | * | B58-1540-03 | CAUTION CARD | K | |
| - | | | B59-1104-00 | SERVICE DIRECTORY | Y | |
| - | | * | B60-3069-00 | INSTRUCTION MANUAL (ENGLISH) | PY | |
| - | | * | B60-3070-00 | INSTRUCTION MANUAL (FRENCH) | P | |
| Δ 621 | 1C | | E30-2605-05 | AC POWER CORD | Y | |
| Δ 621 | 1C | | E30-2849-05 | AC POWER CORD | KP | |
| 622 | 2B | * | E35-1679-05 | FLAT CABLE | | |
| - | | | H10-7250-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H10-7251-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | | | H25-0391-04 | PROTECTION BAG | | |
| - | | * | H50-2189-04 | ITEM CARTON CASE | KP | |
| - | | * | H50-2227-04 | ITEM CARTON CASE | KPY | |
| 632 | 2C | | J02-1013-05 | FOOT | | |
| 633 | 2C | | J19-2808-05 | HOLDER | | |
| 634 | 2B | * | J19-5786-04 | UNIT HOLDER | | |
| 635 | 2C | | J19-5787-04 | UNIT HOLDER | | |
| 636 | 2C | | J19-5788-04 | UNIT HOLDER | | |
| Δ 638 | 1B | | J30-0466-04 | SPACER | Y | |
| Δ 639 | 1C | | J42-0083-05 | POWER CORD BUSHING | | |
| 641 | 1A | | J12-0091-15 | PIN | KPY | |
| - | | | J61-0070-05 | WIRE BAND | Y | |
| - | | | J61-0307-05 | WIRE BAND | | |
| 644 | 2A | | K29-6322-04 | KNOB | | |
| 645 | 2A | | K29-6508-02 | KNOB | | |
| 646 | 2B | | K29-6509-04 | KNOB | | |
| Δ 650 | 1B | * | L07-2247-05 | POWER TRANSFORMER | KP | |
| Δ 650 | 1B | * | L07-2248-05 | POWER TRANSFORMER | Y | |
| 651 | 1A | | T90-0801-05 | LEAD WIRE ANTENNA | | |
| 652 | 1A | | T90-0820-05 | LOOP ANTENNA | | |
| POLAR UNIT (X04-1313-81) | | | | | | |
| C1 | | | CE04LW1H010M | ELECTRO | 1.0UF | 50WV |
| C2 .3 | | | C91-1566-05 | POLYPROPYLENE FILM CAPACITOR | | |
| C4 | | | CE04LW1A470M | ELECTRO | 47UF | 10WV |
| C5 .6 | | | CQ93FMG1H102J | MYLAR | 1000PF | J |
| C7 | | | CC45FSL1H331J | CERAMIC | 330PF | J |
| C8 | | | CK45FB1H102K | CERAMIC | 1000PF | K |
| C9 | | | CC93FCH1H471J | CERAMIC | 470PF | J |
| C10 .11 | | | CE04LW1HR47M | ELECTRO | 0.47UF | 50WV |
| C12 | | | CK45FF1H473Z | CERAMIC | 0.047UF | Z |

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|--|----------|-----------|---|--|--------------|----------|
| C13 -15 C16 C17 ,18 C19 ,20 C21 | | | CE04LW1H010M CK45FF1H103Z CE04LW1H2R2M CQ93FMG1H682J CK45FF1H103Z | ELECTRO 1.0UF 50WV CERAMIC 0.010UF Z ELECTRO 2.2UF 50WV MYLAR 6800PF J CERAMIC 0.010UF Z | | |
| C22 C23 ,24 C25 C26 TC1 | | | CE04LW1A470M CQ93FMG1H472J CC45FSL1H121J CE04LW1H2R2M C05-0463-05 | ELECTRO 47UF 10WV MYLAR 4700PF J CERAMIC 120PF J ELECTRO 2.2UF 50WV CERAMIC TRIMMER CAPACITOR(120P | | |
| CN2 ,3 CN4 CN5 CN6 | | | E40-4871-05 E40-4372-05 E40-3259-05 E40-4872-05 | PIN ASSY PIN ASSY PIN ASSY PIN ASSY | | |
| - - - - - | | | H12-2330-04 H13-0262-04 H21-0343-04 H25-1609-04 H50-2411-04 | PACKING FIXTURE CARTON BOARD PROTECTION SHEET PROTECTION BAG ITEM CARTON CASE | | |
| L1 L2 ,3 L4 | | | L39-1350-05 L79-1236-05 L40-1021-14 | PEAKING COIL LC FILTER SMALL FIXED INDUCTOR(1.0MH,K) | | |
| R9 VR1 VR2 | | | RS14KB3A221J R12-3685-05 R12-1619-05 | FL-PROOF RS 220 J 1W TRIMMING POT.(10K) TRIMMING POT.(4.7K) | | |
| D1 D1 D2 ,3 D2 ,3 D4 | | | MTZJ5.1(B) UZ-5.1BSB HSS104 1SS133 MTZJ5.1(B) | ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE | | |
| D4 D5 D5 D6 ,7 D6 ,7 | | | UZ-5.1BSB MTZJ3.3(B) UZ-3.3BSB HSS104 1SS133 | ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE | | |
| IC1 IC2 IC3 Q1 Q1 | | | IR3R42 NJM4565D TC4052BP 2SA1175(F,E) 2SA933AS(Q,R) | ANALOGUE IC ANALOGUE IC IC(4CH MPX/DE-MPX) TRANSISTOR TRANSISTOR | | |
| Q2 ,3 Q4 Q4 Q5 Q5 | | | 2SC2878(B) 2SA1175(F,E) 2SA933AS(Q,R) DTC124ESA UN4212 | TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR | | |
| TUNER UNIT (X05-4690-20 : YMXV TYPE ONLY) | | | | | | |
| C1 ,2 C3 C4 C7 C8 | | | CK73FB1H103K CC73FCH1H040C CK73FB1H103K CK73FB1H102K CK73FB1H473K | CHIP C 0.010UF K CHIP C 4.0PF C CHIP C 0.010UF K CHIP C 1000PF K CHIP C 0.047UF K | | |
| C9 C10 C11 | | | CE04LW1C100M CK73FB1H473K CE04LW1H010M | ELECTRO 10UF 16WV CHIP C 0.047UF K ELECTRO 1.0UF 50WV | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-------------------------------------|----------|-----------|---|--|--------------|----------|
| C12 C13 C14 C15 C16 | | | CE04LW1H2R2M CK73FB1H102K CE04LW1H3R3M CC73FCH1H220J CE04LW1C100M | ELECTRO 2.2UF 50WV CHIP C 1000PF K ELECTRO 3.3UF 50WV CHIP C 22PF J ELECTRO 10UF 16WV | | |
| C17 C18 C19 C20 C21 ,22 | | | CK73FB1H562K CK73FB1H102K CE04HW1E4R7M CK73FB1E104K CQ92FM1H113J | CHIP C 5600PF K CHIP C 1000PF K NP-ELEC 4.7UF 25WV CHIP C 0.10UF K MYLAR 0.011UF J | | |
| C23 C24 C25 C26 C27 | | | CE04LW1H010M CK73EB1H103K CE04LW1C100M CE04LW1C470M CE04LW1H010M | ELECTRO 1.0UF 50WV CHIP C 0.010UF K ELECTRO 10UF 16WV ELECTRO 47UF 16WV ELECTRO 1.0UF 50WV | | |
| C28 C29 C30 C31 C32 | | | CQ92FM1H223J CE04LW1H2R2M CE04LW1C101M CE04LW1C100M CK73FB1H103K | MYLAR 0.022UF J ELECTRO 2.2UF 50WV ELECTRO 100UF 16WV ELECTRO 10UF 16WV CHIP C 0.010UF K | | |
| C33 C34 ,35 C36 C37 C38 | | | CC73FSL1H101J CK73FB1H102K CC73FCH1H270J CC73FCH1H220J CK73FB1H471K | CHIP C 100PF J CHIP C 1000PF K CHIP C 27PF J CHIP C 22PF J CHIP C 470PF K | | |
| C52 C57 -60 C61 ,62 C63 | | | CC73FCH1H470J CE04LW1C100M CQ92FM1H472J CC73FCH1H220J | CHIP C 47PF J ELECTRO 10UF 16WV MYLAR 4700PF J CHIP C 22PF J | YMV | |
| CN1 J1 | | | E40-9831-05 E70-0079-05 | SOCKET FOR PIN ASSY LOCK TERMINAL BOARD | | |
| J2 | | * | F10-1074-04 | SHIELDING PLATE | | |
| CF1 ,2 CF3 L1 L2 L3 | | | L72-0531-05 L72-0593-05 L39-1348-05 L30-0911-05 L40-1091-17 | CERAMIC FILTER CERAMIC FILTER COMBINATION COIL AM IFT SMALL FIXED INDUCTOR(1UH) | | |
| X1 X2 | | | L77-2187-05 L78-0295-05 | CRYSTAL RESONATOR(7.2MHZ) RESONATOR (456KHZ) | | |
| R1 R2 R3 R4 ,5 R6 | | | RK73FB2A332J RK73FB2A681J RK73FB2A100J RK73FB2A331J RK73FB2A101J | CHIP R 3.3K J 1/10W CHIP R 680 J 1/10W CHIP R 10 J 1/10W CHIP R 330 J 1/10W CHIP R 100 J 1/10W | | |
| R7 R8 R13 R15 ,16 R17 | | | RK73FB2A683J RK73FB2A331J RK73FB2A333J RK73FB2A393J RK73FB2A271J | CHIP R 68K J 1/10W CHIP R 330 J 1/10W CHIP R 33K J 1/10W CHIP R 39K J 1/10W CHIP R 270 J 1/10W | | |
| R18 R19 R21 -23 R24 | | | RK73FB2A302J RK73FB2A822J RK73FB2A102J RK73FB2A562J | CHIP R 3.0K J 1/10W CHIP R 8.2K J 1/10W CHIP R 1.0K J 1/10W CHIP R 5.6K J 1/10W | | |

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106VR/107VR/KR-797/897/M6090/V7090
PARTS LIST

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|----------|-----------|---------------|----------------------|--------------|----------|
| R25 | | | RD14NB2E101J | RD 100 J 1/4W | | |
| R26 | | | RD14NB2E561J | RD 560 J 1/4W | | |
| R27 .28 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R29 .30 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R31 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R32 | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | | |
| R33 | | | RK73FB2A123J | CHIP R 12K J 1/10W | | |
| R41 | | | RS14KB3A181J | FL-PROOF RS 180 J 1W | | |
| R42 | | | RD14NB2E820J | RD 82 J 1/4W | | |
| R43 | | | RD14NB2E221J | RD 220 J 1/4W | | |
| R44 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R46 | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R47 | | | RK73FB2A153J | CHIP R 15K J 1/10W | | |
| R48 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R49 | | | RK73FB2A473J | CHIP R 47K J 1/10W | YMV | |
| R50 | | | RK73FB2A471J | CHIP R 470 J 1/10W | YMV | |
| R51 .54 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R55 .56 | | | RK73FB2A154J | CHIP R 150K J 1/10W | | |
| R59 .60 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R61 | | | RK73FB2A822J | CHIP R 8.2K J 1/10W | | |
| R62 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R63 | | | RK73FB2A821J | CHIP R 820 J 1/10W | | |
| R64 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R65 | | | RK73EB2B102J | CHIP R 1.0K J 1/8W | | |
| W101-106 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W108-114 | | | R92-0670-05 | CHIP R 0 OHM | YMV | |
| W115 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W116 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W201 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W202 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W203-208 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W210,211 | | | R92-0679-05 | CHIP R 0 OHM | | |
| S1 | | | S62-0034-05 | SLIDE SWITCH | YMV | |
| D1 .2 | | | 1SS133 | DIODE | | |
| D3 .4 | | | MTZJ5.1(B) | ZENER DIODE | | |
| D8 | | | 1SS133 | DIODE | | |
| D12 | | | MTZJ3.3(B) | ZENER DIODE | | |
| IC1 | | | LA1832 | ANALOGUE IC | | |
| IC2 | | | LC72131 | MOS-IC | | |
| IC4 | | | NJM4565M | IC(OP AMP X2) | | |
| Q1 | | | 2SC2714(R,O) | TRANSISTOR | | |
| Q3 | | | 2SA1576A(R,S) | TRANSISTOR | | |
| Q5 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q6 | | | 2SA1576A(R,S) | TRANSISTOR | | |
| Q7 .8 | | | 2SD1328 | TRANSISTOR | | |
| Q9 .10 | | | 2SC4081(R,S) | TRANSISTOR | YMV | |
| A1 | | | W02-2539-05 | FM FRONT-END ASSY | | |
| TUNER UNIT (X05-4700-10 : KPTEQ TYPE ONLY) | | | | | | |
| C1 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C2 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | |
| C3 .6 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C7 .8 | | | CK73FB1H103K | CHIP C 0.010UF K | TEQ | |
| C8 | | | CK73FB1H103K | CHIP C 0.010UF K | TEQ | |

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|---------|----------|-----------|---------------|---------------------|--------------|----------|
| C29 | | | CK73EB1E104K | CHIP C 0.10UF K | KP | |
| C30 | | | CK73EB1E473K | CHIP C 0.047UF K | | |
| C31 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C32 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C33 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C34 | | | CK73EB1E104K | CHIP C 0.10UF K | | |
| C35 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C36 | | | CK73FB1E473K | CHIP C 0.047UF K | | |
| C37 | | | CK73EF1E105Z | CHIP C 1.0UF Z | | |
| C38 | | | C90-3217-05 | ELECTRO 10UF 10WV | | |
| C39 | | | CK73FB1H102K | CHIP C 1000PF K | KPQ | |
| C40 | | | C90-3253-05 | ELECTRO 1.0UF 50WV | | |
| C41 | | | C90-3251-05 | ELECTRO 0.47UF 50WV | | |
| C42 | | | C90-3240-05 | ELECTRO 2.2UF 35WV | | |
| C43 | | | CE04LW1HR47M | ELECTRO 0.47UF 50WV | | |
| C44 | | | CK73FB1E473K | CHIP C 0.047UF K | | |
| C45 | | | CC73FCH1H220J | CHIP C 22PF J | | |
| C46 | | | CE04LW1A101M | ELECTRO 100UF 10WV | | |
| C47 | | | CK73FB1H562K | CHIP C 5600PF K | KP | |
| C47 | | | CK73FB1H682K | CHIP C 6800PF K | TEQ | |
| C48 | | | CC73FSL1H101J | CHIP C 100PF J | Q | |
| C48 | | | CK73FB1H102K | CHIP C 1000PF K | TE | |
| C48 | | | CK73FB1H122K | CHIP C 1200PF K | KP | |
| C49 | | | C90-3253-05 | ELECTRO 1.0UF 50WV | | |
| C50 | | | CK73FB1H102K | CHIP C 1000PF K | TEQ | |
| C51 .52 | | | C90-3217-05 | ELECTRO 10UF 10WV | | |
| C53 .54 | | | CK73FB1H223K | CHIP C 0.022UF K | TEQ | |
| C53 .54 | | | CK73FB1H333K | CHIP C 0.033UF K | KP | |
| C55 .56 | | | C90-3240-05 | ELECTRO 2.2UF 35WV | | |
| C57 .58 | | | CK73FB1H822K | CHIP C 8200PF K | TE | |
| C59 | | | CK73FB1H103K | CHIP C 0.010UF K | KPQ | |
| C60 | | | CK73FB1E104K | CHIP C 0.10UF K | TEQ | |
| C61 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C64 | | | CK73FB1H333K | CHIP C 0.033UF K | | |
| C66 | | | CC73FCH1H060D | CHIP C 6.0PF D | TEQ | |
| C67 | | | CC73FCH1H220J | CHIP C 22PF J | TEQ | |
| C68 | | | CC73FSL1H020C | CHIP C 2.0PF C | TEQ | |
| C69 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C70 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C81 | | | CC73FCH1H220J | CHIP C 22PF J | | |
| C82 | | | CC73FCH1H270J | CHIP C 27PF J | | |
| C84 | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C85 | | | C91-0745-05 | CERAMIC 100PF K | | |
| C86 | | | C91-0757-05 | CERAMIC 1000PF K | | |
| C87 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C89 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C90 | | | CE04LW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C91 | | | CQ92FM1H223J | MYLAR 0.022UF J | | |
| C92 | | | CC73FSL1H471J | CHIP C 470PF J | | |
| C93 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C94 | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C95 | | | CC73FCH1H470J | CHIP C 47PF J | | |
| C96 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C97 | | | CK73FB1H102K | CHIP C 1000PF K | KP | |
| C98 | | | CC73FSL1H101J | CHIP C 100PF J | KP | |

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106VR/107VR/KR-797/897/N6090N/7090

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|----------|----------|-----------|---------------|------------------------------|--------------|----------|
| C99 ,100 | | | CC73FSL1H471J | CHIP C 470PF J | KPQ | |
| C102 | | | CC73FSL1H181J | CHIP C 180PF J | KP | |
| C102 | | | CK73FB1H102K | CHIP C 1000PF K | Q | |
| C103 | | | CC73FSL1H101J | CHIP C 100PF J | KP | |
| CN1 | | | E40-9831-05 | SOCKET FOR PIN ASSY | KPTE | |
| CN2 | | | E40-4871-05 | PIN ASSY | | |
| J1 | | | E70-0079-05 | LOCK TERMINAL BOARD | KP | |
| J1 | | | E70-0080-05 | LOCK TERMINAL BOARD | TEQ | |
| WH1 | | | E35-1808-05 | WIRING HARNESS | Q | |
| J2 | | * | F10-1074-04 | SHIELDING PLATE | KP | |
| J2 | | | F10-1075-04 | SHIELDING PLATE | TEQ | |
| CF1 ,2 | | | L72-0536-05 | CERAMIC FILTER | TEQ | |
| CF1 ,2 | | | L72-0596-05 | CERAMIC FILTER | KP | |
| L31 | | | L30-0910-05 | FM IFT | KP | |
| L31 | | | L30-0929-05 | FM IFT | TEQ | |
| L32 | | | L30-0930-05 | FM IFT | TEQ | |
| L33 | | | L30-0911-05 | AM IFT | | |
| L34 | | | L79-1240-05 | LC FILTER | TEQ | |
| L35 ,36 | | | L79-1239-05 | LC FILTER | TE | |
| L61 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | | |
| L62 | | | L39-1351-05 | COMBINATION COIL | | |
| L63 | | | L40-1001-17 | SMALL FIXED INDUCTOR(10UH,K) | | |
| TEQ | | | | | | |
| X31 | | | L78-0295-05 | RESONATOR (456KHZ) | | |
| X81 | | | L77-2187-05 | CRYSTAL RESONATOR(7.2MHZ) | | |
| R1 | | | RD14NB2E101J | RD 100 J 1/4W | | |
| R2 | | | RK73EB2B221J | CHIP R 220 J 1/8W | | |
| R3 | | | RK73FB2A331J | CHIP R 330 J 1/10W | KP | |
| R3 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | TEQ | |
| R4 | | | RK73FB2A681J | CHIP R 680 J 1/10W | | |
| R5 | | | RK73FB2A331J | CHIP R 330 J 1/10W | | |
| R6 | | | RK73FB2A100J | CHIP R 10 J 1/10W | KP | |
| R6 | | | RK73FB2A220J | CHIP R 22 J 1/10W | TEQ | |
| R7 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R8 | | | RK73FB2A331J | CHIP R 330 J 1/10W | | |
| R10 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | TEQ | |
| R11 | | | RK73FB2A681J | CHIP R 680 J 1/10W | TEQ | |
| R12 | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | TEQ | |
| R13 ,14 | | | RK73FB2A331J | CHIP R 330 J 1/10W | TEQ | |
| R15 | | | RK73FB2A101J | CHIP R 100 J 1/10W | TEQ | |
| R16 | | | RK73FB2A220J | CHIP R 22 J 1/10W | TEQ | |
| R17 | | | RK73FB2A621J | CHIP R 620 J 1/10W | TEQ | |
| R18 | | | RK73FB2A123J | CHIP R 12K J 1/10W | TEQ | |
| R19 | | | RK73FB2A4R7J | CHIP R 4.7 J 1/10W | TEQ | |
| R20 | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | TEQ | |
| R22 | | | RK73FB2A101J | CHIP R 100 J 1/10W | KP | |
| R30 | | | RK73FB2A681J | CHIP R 680 J 1/10W | | |
| R31 | | | RS14KB3A820J | FL-PROOF RS 82 J 1W | | |
| R32 | | | RK73EB2B562J | CHIP R 5.6K J 1/8W | | |
| R33 | | | RK73FB2A302J | CHIP R 3.0K J 1/10W | | |
| R34 | | | RK73FB2A822J | CHIP R 8.2K J 1/10W | | |
| R35 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | KP | |
| R35 ,36 | | | RK73FB2A333J | CHIP R 33K J 1/10W | TEQ | |
| R36 | | | RK73FB2A243J | CHIP R 24K J 1/10W | KP | |
| R37 | | | RK73FB2A302J | CHIP R 3.0K J 1/10W | TEQ | |

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|----------|----------|-----------|--------------|---------------------|--------------|----------|
| R37 | | | RK73FB2A362J | CHIP R 3.6K J 1/10W | KP | |
| R38 | | | RK73FB2A333J | CHIP R 33K J 1/10W | | |
| R39 | | | RK73FB2A223J | CHIP R 22K J 1/10W | KP | |
| R39 | | | RK73FB2A473J | CHIP R 47K J 1/10W | TEQ | |
| R40 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | TEQ | |
| R41 | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | TEQ | |
| R42 | | | RK73FB2A473J | CHIP R 47K J 1/10W | TEQ | |
| R43 ,44 | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | TEQ | |
| R43 ,44 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | KP | |
| R45 ,46 | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | TE | |
| R45 ,46 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | KP | |
| R47 ,48 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | TE | |
| R47 ,48 | | | RK73FB2A393J | CHIP R 39K J 1/10W | KP | |
| R49 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R51 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | TEQ | |
| R52 | | | RK73FB2A104J | CHIP R 100K J 1/10W | TEQ | |
| R53 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | TEQ | |
| R54 | | | RK73FB2A683J | CHIP R 68K J 1/10W | TEQ | |
| R55 | | | RK73FB2A473J | CHIP R 47K J 1/10W | TEQ | |
| R56 | | | RK73FB2A104J | CHIP R 100K J 1/10W | TEQ | |
| R59 | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | TEQ | |
| R67 | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R80 | | | RK73EB2B102J | CHIP R 1.0K J 1/8W | | |
| R81 -83 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R84 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R85 -87 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | TEQ | |
| R88 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | KP | |
| R89 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R90 | | | RD14NB2E101J | RD 100 J 1/4W | | |
| R91 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | KP | |
| R91 | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | TEQ | |
| R92 | | | RK73FB2A123J | CHIP R 12K J 1/10W | | |
| R93 | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | | |
| R94 | | | RD14NB2E561J | RD 560 J 1/4W | KPTE | |
| R101,102 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | KPTE | |
| R103 | | | RK73FB2A821J | CHIP R 820 J 1/10W | KPTE | |
| R104 | | | RK73FB2A473J | CHIP R 47K J 1/10W | KPTE | |
| R105 | | | RK73FB2A822J | CHIP R 8.2K J 1/10W | KPTE | |
| W51 -55 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W56 -58 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W59 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W60 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W61 | | | R92-0670-05 | CHIP R 0 OHM | TEQ | |
| W62 -65 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W66 | | | R92-0670-05 | CHIP R 0 OHM | TEQ | |
| W67 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W68 | | | R92-0670-05 | CHIP R 0 OHM | KP | |
| W69 -71 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W73 | | | R92-0670-05 | CHIP R 0 OHM | KP | |
| W73 ,74 | | | R92-0670-05 | CHIP R 0 OHM | TEQ | |
| W76 ,77 | | | R92-0670-05 | CHIP R 0 OHM | KP | |
| W80 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W81 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W82 | | | R92-0670-05 | CHIP R 0 OHM | KP | |

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PARTS LIST

106VR/107VR/KR-797/897/N6090/N7090

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|----------|----------|-----------|---------------|-------------------|--------------|----------|
| W83 -85 | | | R92-0679-05 | CHIP R 0 OHM | | |
| D1 | | | 1SS133 | DIODE | TEQ | |
| D31 | | | MTZJ8.2(B) | ZENER DIODE | | |
| D32 | | | MA111 | DIODE | TEQ | |
| D33 | | | 1SS133 | DIODE | | |
| D61 ,62 | | | 1SS133 | DIODE | | |
| D81 | | | MTZJ5.1(B) | ZENER DIODE | | |
| D101 | | | MTZJ3.3(B) | ZENER DIODE | | |
| IC1 | | | LA1836 | ANALOGUE IC | | |
| IC2 | | | LC72131 | MOS-IC | TEQ | |
| IC3 | | | NJM2904M | IC(OP AMP X2) | | |
| Q1 | | | 2SC2714(R,O) | TRANSISTOR | TEQ | |
| Q2 | | | 2SC2714(R,O) | TRANSISTOR | TEQ | |
| Q3 | | | 2SA1576A(R,S) | TRANSISTOR | TEQ | |
| Q31 | | | 2SC4081(R,S) | TRANSISTOR | TEQ | |
| Q32 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q81 | | | 2SA1576A(R,S) | TRANSISTOR | KPTE | |
| Q101,102 | | | 2SD1328 | TRANSISTOR | KPTE | |
| Q103 | | | 2SA1576A(R,S) | TRANSISTOR | | |
| A1 | | | W02-2539-05 | FM FRONT-END ASSY | KP | |
| A1 | | | W02-2565-05 | FM FRONT-END ASSY | TE | |
| A1 | | | W02-2579-05 | FM FRONT-END ASSY | Q | |

AUDIO UNIT (X09-4510-12)

| | | | | | | |
|----------|--|---|---------------|--------------------------|--------|--|
| D131-133 | | * | B30-2493-05 | LED(RED) | | |
| C1 | | * | C91-1563-05 | METALIZED FILM CAPACITOR | KP | |
| C2 -4 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | KP | |
| C5 | | | CE04EW1E331M | ELECTRO 330UF 25WV | KP | |
| C6 | | | CK45FB1H102K | CERAMIC 1000PF K | KP | |
| C7 | | | CE04LW1A470M | ELECTRO 47UF 10WV | KP | |
| C8 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | KP | |
| C9 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | KP | |
| C11,12 | | * | C91-1564-05 | MF-C 0.22UF J | | |
| C13 -16 | | | CK45FE2H103P | CERAMIC 0.010UF P | | |
| C17,18 | | * | C90-3729-05 | ELECTRO 4700UF 80WV | KPYMXV | |
| C17,18 | | * | C90-3733-05 | ELECTRO 4700UF 71WV | TEQ | |
| C19 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C20 | | | CE04LW2A470M | ELECTRO 47UF 100WV | | |
| C21 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C22 | | | CE04LW1V100M | ELECTRO 10UF 35WV | | |
| C23,24 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C25 | | | CE04LW1V102M | ELECTRO 1000UF 35WV | | |
| C26 | | | CE04LW1V471M | ELECTRO 470UF 35WV | | |
| C27,28 | | | CE04LW1E470M | ELECTRO 47UF 25WV | | |
| C31,32 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C33 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C34 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C35 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C36 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C39 | | | CE04LW1C101M | ELECTRO 100UF 16WV | | |
| C40 | | | CE04LW1C100M | ELECTRO 10UF 16WV | 2345 | |
| C41 | | | CE04LW1A221M | ELECTRO 220UF 10WV | | |
| C42 -44 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C45 | | | CE04LW1C220M | ELECTRO 22UF 16WV | | |

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|----------|----------|-----------|---------------|---------------------|--------------|----------|
| C46 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | 1234 | |
| C47 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C48 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C49 | | | CE04LW1A221M | ELECTRO 220UF 10WV | | |
| C50 | | | CE04HW1H010M | NP-ELEC 1.0UF 50WV | 1234 | |
| C51,52 | | | CC45FSL1H470J | CERAMIC 47PF J | 3456 | |
| C53,54 | | | CE04LW1C100M | ELECTRO 10UF 16WV | 3456 | |
| C55,56 | | | CC45FSL1H470J | CERAMIC 47PF J | 3456 | |
| C57,58 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C59 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C60 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | 3456 | |
| C61,62 | | | CC45FSL1H220J | CERAMIC 22PF J | | |
| C63,64 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C65,66 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C67,68 | | | CE04LW1A101M | ELECTRO 100UF 10WV | | |
| C69,70 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C71,72 | | | CQ92FM1H123J | MYLAR 0.012UF J | | |
| C73,74 | | | CQ92FM1H332J | MYLAR 3300PF J | | |
| C75,76 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C77-80 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | TEQ | |
| C81 | | | CQ92FM1H223J | MYLAR 0.022UF J | | |
| C82 | | | CQ92FM1H473J | MYLAR 0.047UF J | | |
| C83 | | | CE04LW1A221M | ELECTRO 220UF 10WV | | |
| C84 -87 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C88 | | | CE04LW1A221M | ELECTRO 220UF 10WV | | |
| C89,90 | | | CF92FV1H104J | MF-C 0.10UF J | | |
| C91 | | | CE04LW1HR47M | ELECTRO 0.47UF 50WV | | |
| C92 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C93 | | | CE04LW1HR47M | ELECTRO 0.47UF 50WV | | |
| C94 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C95 | | | CF92FV1H154J | MF-C 0.15UF J | | |
| C96 | | | CE04LW1H3R3M | ELECTRO 3.3UF 50WV | | |
| C97,98 | | | CF92FV1H154J | MF-C 0.15UF J | | |
| C99 | | | CE04LW1H3R3M | ELECTRO 3.3UF 50WV | | |
| C100 | | | CF92FV1H154J | MF-C 0.15UF J | | |
| C101 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C102 | | | CE04LW1HR47M | ELECTRO 0.47UF 50WV | | |
| C103 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C104 | | | CE04LW1HR47M | ELECTRO 0.47UF 50WV | | |
| C105,106 | | | CF92FV1H104J | MF-C 0.10UF J | | |
| C107 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C108 | | | CF92FV1H474J | MF-C 0.47UF J | | |
| C109 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C110 | | | CQ92FM1H681J | MYLAR 680PF J | | |
| C111 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C115,116 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C117 | | | CE04LW1C101M | ELECTRO 100UF 16WV | | |
| C118 | | | CF92FV1H474J | MF-C 0.47UF J | | |
| C119 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | |
| C120 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C121 | | | CE04HW1E4R7M | NP-ELEC 4.7UF 25WV | | |
| C122-124 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C127 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C128 | | | CK45FB1H222K | CERAMIC 2200PF K | | |
| C129 | | | CK45FB1H102K | CERAMIC 1000PF K | | |

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|----------|----------|-----------|--------------|-----------------------------|--------------|----------|
| C130 | | | CE04LW1H2R2M | ELECTRO 2.2UF 50WV | 56 | |
| C131 | | | CE04LW1HR33M | ELECTRO 0.33UF 50WV | | |
| C132 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C133 | | | CE04LW1A221M | ELECTRO 220UF 10WV | | |
| C134 | | | CE04LW1HR47M | ELECTRO 0.47UF 50WV | | |
| C135 | | | CQ92FM1H823J | MYLAR 0.082UF J | | |
| C136 | | | CQ92FM1H332J | MYLAR 3300PF J | | |
| C137 | | | CQ92FM1H823J | MYLAR 0.082UF J | | |
| C138 | | | CE04LW1A221M | ELECTRO 220UF 10WV | | |
| C140-142 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C144-146 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C147,148 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | |
| C152,153 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C161,162 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | |
| C163-166 | | | CE04LW1H3R3M | ELECTRO 3.3UF 50WV | | |
| C167,168 | | | CQ92FM1H683J | MYLAR 0.068UF J | | |
| C169,170 | | | CE04LW1HR22M | ELECTRO 0.22UF 50WV | | |
| C171,172 | | | CQ92FM1H153J | MYLAR 0.015UF J | | |
| C173,174 | | | C91-1561-05 | METALIZED POLYESTER FILM C. | | |
| C175,176 | | | CK45FB1H222K | CERAMIC 2200PF K | | |
| C177,178 | | | CE04LW1H0R1M | ELECTRO 0.1UF 50WV | | |
| C179,180 | | | CK45FF1H472Z | CERAMIC 4700PF Z | | |
| C181,182 | | | CE04LW1H3R3M | ELECTRO 3.3UF 50WV | | |
| C183 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C184 | | | CE04LW1HR47M | ELECTRO 0.47UF 50WV | | |
| C185 | | | CK45FF1H472Z | CERAMIC 4700PF Z | | |
| C186 | | | CE04LW1HR47M | ELECTRO 0.47UF 50WV | | |
| C189,190 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | |
| C191-194 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C195 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C196,197 | | | CE04LW1C100M | ELECTRO 10UF 16WV | 56 23456 | |
| C199 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C200 | | | CE04LW1C220M | ELECTRO 22UF 16WV | | |
| C201,202 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C203,204 | | | CK45FB1H561K | CERAMIC 560PF K | | |
| C205,206 | | | CE04LW1C220M | ELECTRO 22UF 16WV | | |
| C207,208 | | | C91-1562-05 | MF-C 1.0UF J | | |
| C209,210 | | | C90-3734-05 | ALUMINIUM ELECTROLYTIC C. | | |
| C211,212 | | | CE04LW2A010M | ELECTRO 1.0UF 100WV | | |
| C213,214 | | | CE04LW2A470M | ELECTRO 47UF 100WV | | |
| C215,216 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C217,218 | | | CF92FV1H104J | MF-C 0.10UF J | | |
| C221-224 | | | CK45FE2H103P | CERAMIC 0.010UF P | | |
| C251,252 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C253,254 | | | CK45FB1H561K | CERAMIC 560PF K | | |
| C255,256 | | | CE04LW1A101M | ELECTRO 100UF 10WV | 13456 | |
| C257,258 | | | C91-1562-05 | MF-C 1.0UF J | 13456 | |
| C259,260 | | | C90-3734-05 | ALUMINIUM ELECTROLYTIC C. | 13456 | |
| C261,262 | | | CE04LW2A010M | ELECTRO 1.0UF 100WV | 13456 | |
| C263,264 | | | CE04LW2A470M | ELECTRO 47UF 100WV | 13456 | |
| C265,266 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | 13456 | |
| C267,268 | | | CF92FV1H104J | MF-C 0.10UF J | 13456 | |
| C451,452 | | | C91-0745-05 | CERAMIC 100PF K | TEQ | |
| C453,454 | | | C91-0745-05 | CERAMIC 100PF K | | |
| C455,456 | | | C91-0745-05 | CERAMIC 100PF K | TEQ | |

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|----------|----------|-----------|--------------|----------------------|-------------------|------------|
| C457,458 | | | C91-0745-05 | CERAMIC 100PF K | TEQ | |
| C459-462 | | | C91-0745-05 | CERAMIC 100PF K | | |
| C463,464 | | | CE04LW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C465,466 | | | C91-0753-05 | CHIP C 470PF K | | |
| C467,468 | | | CE04LW1C220M | ELECTRO 22UF 16WV | | |
| C469,470 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C471 | | | C91-0757-05 | CERAMIC 1000PF K | | |
| C501 | | | C91-0769-05 | CERAMIC 0.010UF K | | |
| C502,503 | | | C90-3253-05 | ELECTRO 1.0UF 50WV | | |
| C504,505 | | | C91-0769-05 | CERAMIC 0.010UF K | | |
| C506 | | | C90-1827-05 | ELECTRO 0.047F 5.5WV | V YMXTEQ KP | |
| C506 | | | C90-1827-05 | ELECTRO 0.047F 5.5WV | | |
| C506 | | | C90-3216-05 | ELECTRO 330UF 6.3WV | | |
| C507 | | | C90-3214-05 | ELECTRO 100UF 6.3WV | | |
| C508 | | | C91-0769-05 | CERAMIC 0.010UF K | | |
| C509,510 | | | C91-0745-05 | CERAMIC 100PF K | | |
| C511,512 | | | C90-3214-05 | ELECTRO 100UF 6.3WV | | |
| C513-516 | | | C91-0745-05 | CERAMIC 100PF K | | |
| C520 | | | C91-0745-05 | CERAMIC 100PF K | | |
| C521-525 | | | C91-0769-05 | CERAMIC 0.010UF K | | |
| CN11 | | | E40-4245-05 | PIN ASSY | KP 5 | |
| CN16 | | | E40-4918-05 | FLAT CABLE CONNECTOR | | |
| CN17 | | | E40-9848-05 | PIN ASSY | | |
| CN18 | | | E40-9888-05 | PIN ASSY | | 1234 KP |
| CN19 | | | E40-4807-05 | PIN ASSY | KP56 1256 | |
| CN20 | | | E40-4254-05 | FLAT CABLE CONNECTOR | | |
| CN21 | | | E40-4956-05 | FLAT CABLE CONNECTOR | | |
| CN22 | | | E40-9906-05 | SOCKET FOR PIN ASSY | | |
| J1 | | | E03-0316-05 | AC OUTLET | KP | |
| J2 | | | E63-0195-05 | PHONO JACK | 3456 | |
| J3 | | | E63-0196-05 | PHONO JACK | | |
| J4 | | | E11-0347-05 | MINIATURE PHONE JACK | | |
| J5 | | | E63-0198-05 | PHONO JACK | | 1234 |
| J6 | | * | E70-0081-05 | LOCK TERMINAL BOARD | | |
| J7 | | | E70-0082-05 | LOCK TERMINAL BOARD | | |
| J8 | | | E11-0295-05 | PHONE JACK (3P) | | |
| J10,11 | | | E63-0194-05 | PHONO JACK | | |
| WH1 | | * | E35-1721-05 | WIRING HARNESS | KP KP | |
| WH2 | | * | E35-1722-05 | WIRING HARNESS | | |
| WH11 | | * | E82-5518-04 | FINISHED WIRE | | |
| WH12 | | * | E82-4533-04 | FINISHED WIRE | | |
| WH13 | | * | E82-3512-04 | FINISHED WIRE | | |
| WH14 | | * | E82-3539-04 | FINISHED WIRE | | |
| WH15 | | * | E82-6518-04 | FINISHED WIRE | | |
| WH16 | | * | E82-5527-04 | FINISHED WIRE | TEQ Q | |
| WH17 | | * | E84-7522-04 | FINISHED WIRE | | |
| WH22 | | * | E89-0001-05 | FINISHED WIRE | | |
| WH25 | | * | E82-4568-04 | FINISHED WIRE | | |
| WH26 | | * | E82-3568-04 | FINISHED WIRE | | |
| WH27 | | * | E89-0002-05 | FINISHED WIRE | | |
| WH31 | | * | E35-1763-05 | WIRING HARNESS | | |
| WH32 | | * | E35-1764-05 | WIRING HARNESS | | |
| WH33 | | * | E35-1765-05 | WIRING HARNESS | | |
| WH34 | | * | E35-1766-05 | WIRING HARNESS | | |

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|------------|--------------|--------------|--------------|-----------------------------|------------------|--------------|
| WH35 | | * | E35-1767-05 | WIRING HARNESS | | |
| △ F1 | | * | F01-2070-15 | HEAT SINK | KP | |
| △ F5 .6 | | | F50-0078-05 | FUSE(5X20) | KP | |
| △ F5 .6 | | | F50-0066-05 | FUSE(5X20) | YMXTEQ | |
| △ F7 .8 | | | F50-0096-05 | FUSE(5X20) | KP | |
| △ F7 .8 | | * | F50-0076-05 | FUSE(5X20) | | |
| △ F7 .8 | | * | F50-0103-05 | FUSE(5X20) | YMXTEQ | |
| CN1 .2 | | | J19-5644-03 | HOLDER | | |
| CN3 .6 | | | J13-0075-05 | FUSE CLIP | KP | |
| CN31-34 | | | J13-0075-05 | FUSE CLIP | | |
| J9 | | | J13-0075-05 | FUSE CLIP | | |
| J12 -15 | | | J11-0809-05 | WIRE CLAMPER | | |
| L3 .4 | | * | L33-0541-05 | CHOKE COIL | | |
| L5 .6 | | | L92-0054-05 | FERRITE CORE | | |
| L11 .12 | | * | L33-0541-05 | CHOKE COIL | EQ | |
| L13 .14 | | | L92-0054-05 | FERRITE CORE | EQ | |
| △ T1 | | | L07-2127-05 | POWER TRANSFORMER | KP | |
| X1 | | | L78-0290-05 | RESONATOR (8MHZ) | EQ | |
| X10 | | | L78-0290-05 | RESONATOR (8MHZ) | TEQV | |
| X10 | | | L78-0605-05 | RESONATOR (8.38MHZ) | KPYMX | |
| CP1 | | | R90-0488-05 | MULTI-COMP 4.7KX8 J 1/6W | | |
| △ R1 | | | R92-1844-05 | CARBON COMPOSITION RESISTOR | KP | |
| R2 | | | RD14NB2E332J | RD 3.3K J 1/4W | KP | |
| △ R6 | | | RS14KB3A150J | FL-PROOF RS 15 J 1W | | |
| R12 | | | RD14NB2E330J | RD 33 J 1/4W | | |
| R19 | | | RD14NB2E101J | RD 100 J 1/4W | | |
| △ R22 | | | RS14KB3D271J | FL-PROOF RS 270 J 2W | 3456 | |
| △ R23 | | | RS14KB3D271J | FL-PROOF RS 270 J 2W | | |
| △ R28 -30 | | | RS14KB3D331J | FL-PROOF RS 330 J 2W | | |
| R37 | | | RD14NB2E100J | RD 10 J 1/4W | | |
| △ R39 .40 | | | RD14NB2E101J | RD 100 J 1/4W | | |
| R140.141 | | * | RS14KB3D682J | FL-PROOF RS 6.8K J 2W | TEQ | |
| R140.141 | | * | RS14KB3D822J | FL-PROOF RS 8.2K J 2W | KPYMXV | |
| R147.148 | | | RS14KB3D471J | FL-PROOF RS 470 J 2W | | |
| R211-214 | | | RS14KB3D682J | FL-PROOF RS 6.8K J 2W | TEQ | |
| R211-214 | | | RS14KB3D822J | FL-PROOF RS 8.2K J 2W | KPYMXV | |
| R215 | | | RS14KB3D182J | FL-PROOF RS 1.8K J 2W | | |
| R216 | | | RS14KB3A102J | FL-PROOF RS 1.0K J 1W | | |
| △ R217.218 | | | RD14NB2E681J | RD 680 J 1/4W | | |
| R219.220 | | * | R92-1843-05 | FL-PROOF RS 0.22 J 5W | | |
| R229.230 | | | RS14KB3D4R7J | FL-PROOF RS 4.7 J 2W | | |
| R235-238 | | * | R92-1852-05 | FL-PROOF RS 0.33 J 5W | | |
| R239 | | | RS14KB3D182J | FL-PROOF RS 1.8K J 2W | | |
| R241 | | | RS14KB3A102J | FL-PROOF RS 1.0K J 1W | | |
| R261-264 | | | RS14KB3D682J | FL-PROOF RS 6.8K J 2W | TEQ | |
| R261-264 | | | RS14KB3D822J | FL-PROOF RS 8.2K J 2W | 23456 | |
| △ R265.266 | | | RS14KB3D272J | FL-PROOF RS 2.7K J 2W | | |
| R267.268 | | | RD14NB2E681J | RD 680 J 1/4W | | |
| R269.270 | | * | R92-1843-05 | FL-PROOF RS 0.22 J 5W | | |
| R279.280 | | | RS14KB3D4R7J | FL-PROOF RS 4.7 J 2W | | |
| R280-280 | | * | R92-1852-05 | FL-PROOF RS 0.33 J 5W | 13456 | |

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| Ref. No | Add- ress | New Parts | Parts No. | Description | Desti- nation | Re- marks |
|-----------|--------------|--------------|--------------|----------------|------------------|--------------|
| R519,520 | | | RD14NB2E221J | RD 220 J 1/4W | | |
| R522 | | | RD14NB2E100J | RD 10 J 1/4W | | |
| K1 | | | S76-0057-05 | MAGNETIC RELAY | KP | |
| △ K2 .3 | | * | S76-0056-05 | MAGNETIC RELAY | | |
| K4 | | | S76-0063-05 | MAGNETIC RELAY | | |
| S1 | | | S62-0034-05 | SLIDE SWITCH | | |
| S101-128 | | | S70-0031-05 | TACT SWITCH | | |
| S129 | | | S70-0031-05 | TACT SWITCH | 56 | |
| S130-131 | | | S70-0031-05 | TACT SWITCH | | |
| S132 | | | S70-0031-05 | TACT SWITCH | TEQ | |
| S133 | | | T99-0559-05 | ROTARY ENCODER | | |
| S134 | | | T99-0571-05 | ROTARY ENCODER | | |
| D1 | | | 1SS131 | DIODE | KP | |
| D2 -5 | | | S5688B | DIODE | KP | |
| D2 -5 | | | 1SR139-400 | DIODE | KP | |
| D6 | | | MTZJ6.2(B) | ZENER DIODE | KP | |
| D7 .8 | | | 1SS131 | DIODE | KP | |
| △ D9 | | | MTZJ2.7(B) | ZENER DIODE | KP | |
| △ D10 | | | S5688B | DIODE | | |
| △ D10 | | | 1SR139-400 | DIODE | | |
| △ D11 | | | D5SBA20F03 | DIODE | | |
| △ D12 | | | S5688B | DIODE | | |
| △ D12 | | | 1SR139-400 | DIODE | | |
| △ D13 | | | MTZJ5.1(B) | ZENER DIODE | | |
| △ D14 | | | S5688B | DIODE | | |
| △ D14 | | | 1SR139-400 | DIODE | | |
| △ D15 | | | 1SS131 | DIODE | | |
| D16 | | | MTZJ15(B) | ZENER DIODE | | |
| D17 | | | MTZJ3.9(B) | ZENER DIODE | | |
| D18 | | | MTZJ15(B) | ZENER DIODE | | |
| △ D19 -22 | | | S5688B | DIODE | | |
| △ D19 -22 | | | 1SR139-400 | DIODE | | |
| △ D23 | | | MTZJ11(B) | ZENER DIODE | | |
| △ D24 | | | S5688B | DIODE | | |
| △ D24 | | | 1SR139-400 | DIODE | | |
| D25 | | | 1SS131 | DIODE | | |
| D26 | | | MTZJ5.1(B) | ZENER DIODE | 12 | |
| △ D27 | | | MTZJ5.1(B) | ZENER DIODE | | |
| D28 | | | D5SBA20F03 | DIODE | | |
| D29 | | | MTZJ10(B) | ZENER DIODE | | |
| D30 | | | 1SS131 | DIODE | | |
| △ D31 | | | D5SBA20F03 | DIODE | | |
| D32 | | | 1SS131 | DIODE | | |
| D33 .34 | | | MTZJ11(B) | ZENER DIODE | | |
| D35 -42 | | | 1SS131 | DIODE | | |
| D101-110 | | | 1SS133 | DIODE | | |
| D111 | | | 1SS131 | DIODE | YM | |
| D112 | | | 1SS131 | DIODE | YMXTEQ | |
| D113 | | | 1SS131 | DIODE | XQ | |
| D114 | | | 1SS131 | DIODE | TEQ | |
| D115-121 | | | 1SS131 | DIODE | KPYMXV | |
| D122 | | | 1SS131 | DIODE | 1234 | |
| D123 | | | 1SS131 | DIODE | 1256 | |

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|---|----------|-----------|--|--|----------------------|----------|
| D124 D127 D201-203 D251-253 ED1 | | | MTZJ5.6(B) 1SS133 1SS131 1SS131 FIP10DM6R | ZENER DIODE DIODE DIODE DIODE INDICATOR TUBE | | |
| IC1 IC2 IC3 IC4 IC6 | | | NJM2279D LA2786 LV1016 TC9215AP STK426-530K | IC(VIDEO IC) ANALOGUE IC DI BI-POLAR IC ANALOGUE IC HYBRID IC | 3456 | |
| IC7 IC8 IC9 IC18 IC19 | | * | STK426-530K NJM4580D-D M62430FP NJU7313AL NJM4565D-D | HYBRID IC IC(OP AMP X2) ANALOGUE IC ANALOGUE IC IC(OP AMP X2) | 13456 | |
| IC21 IC21 IC22 IC23 Q1 | | | CXP82532-151Q CXP82540-152Q S-806D-Z X24C04P 2SC3940A(R,S) | MI-COM IC MI-COM IC ANALOGUE IC MEMORY IC TRANSISTOR | KPYMX TEQ | |
| Q2 Q5 ,6 Q11 Q12 Q13 | | | 2SC2003(L,K) 2SA933AS(Q,R) DTC113ZSA 2SA1534A(R,S) 2SD2525 | TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR | TEQ KP | |
| Q14 Q15 Q16 Q17 Q18 | | | 2SB1640 2SC1740S(Q,R) 2SA992(F,E) 2SC1740S(Q,R) 2SC2878(B) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | 56 | |
| Q19 Q20 Q21 -22 Q23 ,24 Q25 | | | 2SC2590(Q,R) DTC113ZSA 2SC2878(B) 2SC2878(B) 2SA992(F,E) | TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | 23456 | |
| Q26 ,27 Q28 Q29 Q30 Q31 ,32 | | | 2SC1845(F,E) DTC113ZSA 2SC2878(B) 2SC1740S(Q,R) 2SC2878(B) | TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q101,102 Q103-105 Q106 Q107 Q201,202 | | | 2SC1740S(Q,R) DTC143TSA DTC143TSA 2SA933AS(Q,R) 2SC2878(B) | TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | 1234 YMV 23456 | |
| Q203,204 Q251,252 | | | 2SC2631(R,S) 2SC2878(B) | TRANSISTOR TRANSISTOR | 23456 | |
| A1 | | | W02-2583-05 | OPTIC RECEIVING MODULE | | |
| CONTROL UNIT (X11-3710-10 : KR-797/897 ONLY) | | | | | | |
| C4 C5 ,6 C7 -10 C9 ,10 C13 ,14 | | | CE04HW1E4R7M C91-0749-05 CE04LW1V4R7M CE04LW1V470M C91-0749-05 | CERAMIC 220PF K CERAMIC 220PF K ELECTRO 4.7UF 35WV ELECTRO 47UF 35WV CERAMIC 220PF K | 2 1 2 | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|----------|-----------|---|--|---------------------------------------|----------|
| C15 ,16 C17 ,18 C19 ,20 C23 ,24 C25 ,26 | | | CE04LW1V4R7M CE04LW1V4R7M CE04LW1H100M CQ92FM1H472J CQ92FM1H223J | ELECTRO 4.7UF 35WV ELECTRO 4.7UF 35WV ELECTRO 10UF 50WV MYLAR 4700PF J MYLAR 0.022UF J | 1 2 2 1 | |
| CN1 CN2 J1 J2 J2 | | | E40-4293-05 E40-4293-05 E63-0195-05 E63-0195-05 E63-1004-05 | FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PHONO JACK PHONO JACK PHONO JACK | 2 1 2 | |
| WH1 | | * | E83-2515-04 | FINISHED WIRE | | |
| D1 ,2 IC1 IC2 Q1 -4 Q5 ,6 Q8 | | | 1SS133 NJM4565L NJM4565L 2SC2878(B) 2SC2878(B) 2SA933AS(Q,R) | DIODE ANALOGUE IC ANALOGUE IC TRANSISTOR TRANSISTOR TRANSISTOR | 2 1 2 2 2 | |
| SUB UNIT (X13-7430-10) | | | | | | |
| C1 C1 C2 C2 C3 | | | CK45FF1H103Z CK45FF1H103Z C91-1488-05 C91-1563-05 CE04EW1E331M | CERAMIC 0.010UF Z CERAMIC 0.010UF Z MF 6800PF 250VAC METALIZED FILM CAPACITOR ELECTRO 330UF 25WV | Q Q YXTEQ MV Q | |
| C3 C4 C4 C5 C5 | | | CE04EW1E331M CE04LW1A470M CE04LW1A470M CE04LW1V4R7M CE04LW1V4R7M | ELECTRO 330UF 25WV ELECTRO 47UF 10WV ELECTRO 47UF 10WV ELECTRO 4.7UF 35WV ELECTRO 4.7UF 35WV | Q YXTEQ YXTEQ YXTEQ YXTEQ | |
| C6 C6 ,7 C7 C8 ,9 C8 ,9 | | | C91-1488-05 C91-1563-05 C91-1488-05 CK45FF1H103Z CK45FF1H103Z | MF 6800PF 250VAC METALIZED FILM CAPACITOR MF 6800PF 250VAC CERAMIC 0.010UF Z CERAMIC 0.010UF Z | YXTEQ MV XTEQ Q YXTEQ | |
| C10 C10 C11 ,12 C13 C14 | | | CK45FB1H102K CK45FB1H102K CE04LW1V4R7M CE04LW1C220M CK45FF1H103Z | CERAMIC 1000PF K CERAMIC 1000PF K ELECTRO 4.7UF 35WV ELECTRO 22UF 16WV CERAMIC 0.010UF Z | Q YXTEQ 56 56 56 | |
| C15 C15 C16 ,17 C18 C19 | | | CK45FF1H103Z CK45FF1H103Z CC45FSL1H101J CE04LW1H101M CE04LW1C100M | CERAMIC 0.010UF Z CERAMIC 0.010UF Z CERAMIC 100PF J ELECTRO 1.0UF 50WV ELECTRO 10UF 16WV | Q YXTEQ 56 56 56 | |
| C20 ,21 C22 ,23 C24 C25 ,26 C29 | | | CK45FF1H103Z CE04LW1C220M CC45FSL1H101J CE04LW1C100M CE04LW1E100M | CERAMIC 0.010UF Z ELECTRO 22UF 16WV CERAMIC 100PF J ELECTRO 10UF 16WV ELECTRO 10UF 25WV | 56 56 56 56 56 | |
| C50 ,51 C61 ,62 C63 ,64 C65 ,66 C67 ,68 | | | CK45FB1H471K CC45FSL1H101J C90-3242-05 CC45FCH1H220J CK45FF1H103Z | CERAMIC 470PF K CERAMIC 100PF J ELECTRO 4.7UF 35WV CERAMIC 22PF J CERAMIC 0.010UF Z | TEQ 56 56 56 56 | |

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PARTS LIST

106VR/107VR/KR-797/897/M6090/N7090

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| Ref. No | Add- ress | New Parts | Parts No. | Description | Desti- nation | Re- marks |
|-----------|--------------|--------------|---------------|------------------------------|------------------|--------------|
| C69 | | | CC45FSL1H101J | CERAMIC 100PF J | 56 | |
| C70, 71 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | 56 | |
| C101 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | TEQ | |
| C102 | | | CE04LW1H2R2M | ELECTRO 2.2UF 50WV | TEQ | |
| C103 | | | CC45FSL1H331J | CERAMIC 330PF J | TEQ | |
| C104 | | | CK45FB1H561K | CERAMIC 560PF K | TEQ | |
| C105 | | | CC45FCH1H470J | CERAMIC 47PF J | TEQ | |
| C106 | | | CC45FCH1H220J | CERAMIC 22PF J | TEQ | |
| C107, 108 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | TEQ | |
| C109 | | | CE04LW1V470M | ELECTRO 47UF 35WV | TEQ | |
| C110 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | TEQ | |
| CN1 | | | E40-4245-05 | PIN ASSY | Q | |
| CN1 | | | E40-4245-05 | PIN ASSY | Y | YMXVTE |
| CN4 | | | E40-4294-05 | FLAT CABLE CONNECTOR | Q | |
| CN4 | | | E40-4294-05 | FLAT CABLE CONNECTOR | Y | YMXVTE |
| CN5 | | | E40-4296-05 | FLAT CABLE CONNECTOR | 56 | |
| CN10 | | | E40-4295-05 | FLAT CABLE CONNECTOR | TEQ | |
| CN11 | | | E40-4284-05 | FLAT CABLE CONNECTOR | 56 | |
| Δ J1 | | | E03-0109-05 | AC OUTLET | T | |
| Δ J1 | | | E03-0305-05 | AC OUTLET | MEQ | |
| Δ J1 | | | E03-0316-05 | AC OUTLET | Y | |
| Δ J1 | | | E03-0325-05 | AC OUTLET | X | |
| Δ J1 | | * | E03-0337-05 | AC OUTLET | V | |
| J2 | | | E63-0198-05 | PHONO JACK | 56 | |
| J3 | | | E70-0083-05 | PHONO JACK | 56 | |
| J4 | | | E63-0197-05 | PHONE JACK | 56 | |
| WH1 | | * | E35-1700-05 | WIRING HARNESS | Q | |
| WH1 | | * | E35-1700-05 | WIRING HARNESS | Y | YMXVTE |
| WH2 | | * | E35-1701-05 | WIRING HARNESS | Q | |
| WH2 | | * | E35-1701-05 | WIRING HARNESS | Y | YMXVTE |
| WH3 | | * | E35-1702-05 | WIRING HARNESS | YM | |
| WH4 | | * | E35-1703-05 | WIRING HARNESS | YM | |
| WH5 | | * | E35-1704-05 | WIRING HARNESS | YM | |
| WH6 | | * | E35-1705-05 | WIRING HARNESS | YM | |
| WH7 | | * | E35-1706-05 | WIRING HARNESS | YM | |
| WH8 | | * | E35-1707-05 | WIRING HARNESS | YM | |
| WH9 | | * | E35-1708-05 | WIRING HARNESS | YM | |
| Δ F1 | | * | F50-0101-05 | FUSE(5X20) | TEQ | |
| Δ F1 | | * | F50-0102-05 | FUSE(5X20) | YMX | |
| Δ F1 | | * | F50-0112-05 | FUSE(5X20) | V | |
| Δ F2 | | * | F50-0102-05 | FUSE(5X20) | YM | |
| Δ F3 | | * | F50-0100-05 | FUSE(5X20) | EQ | |
| CN2, 3 | | | J13-0075-05 | FUSE CLIP | Q | |
| CN2, 3 | | | J13-0075-05 | FUSE CLIP | Y | YMXVTE |
| CN6, 7 | | | J13-0075-05 | FUSE CLIP | YM | |
| CN8, 9 | | | J13-0075-05 | FUSE CLIP | EQ | |
| L11 - 13 | | | L92-0044-05 | FERRITE CORE | 56 | |
| L101 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | TEQ | |
| L102 | | | L40-1001-17 | SMALL FIXED INDUCTOR(10UH,K) | TEQ | |
| Δ T1 | | | L07-2128-05 | POWER TRANSFORMER | YM | |
| Δ T1 | | | L07-2129-05 | POWER TRANSFORMER | VXTEQ | |
| X1 | | | L77-2206-05 | CRYSTAL RESONATOR(4.332MHZ) | TEQ | |

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|----------|--------------|--------------|---------------|--------------------|------------------|--------------|
| Δ K1 | | | S76-0044-05 | MAGNETIC RELAY | Q | |
| Δ K1 | | | S76-0044-05 | MAGNETIC RELAY | Y | YMXVTE |
| Δ K2 | | | S76-0056-05 | MAGNETIC RELAY | 56 | |
| Δ S1 | | | S68-0056-05 | PUSH SWITCH | Y | YMXVTEQ |
| Δ S2 | | | S31-3010-05 | SLIDE SWITCH | YM | |
| D1 - 4 | | | S5688B | DIODE | Q | |
| D1 - 4 | | | S5688B | DIODE | Y | YMXVTE |
| D1 - 4 | | | 1SR139-400 | DIODE | Q | |
| D1 - 4 | | | 1SR139-400 | DIODE | Y | YMXVTE |
| D5 | | | MTZJ6.2(B) | ZENER DIODE | Q | |
| D5 | | | MTZJ6.2(B) | ZENER DIODE | Y | YMXVTE |
| D6, 7 | | | 1SS131 | DIODE | Q | |
| D6, 7 | | | 1SS131 | DIODE | Y | YMXVTE |
| Δ D8 | | | MTZJ2.7(B) | ZENER DIODE | Q | |
| Δ D8 | | | MTZJ2.7(B) | ZENER DIODE | Y | YMXVTE |
| D10 | | | 1SS133 | DIODE | Q | |
| D10 | | | 1SS133 | DIODE | Y | YMXVTE |
| D13 | | | MTZJ4.7(B) | ZENER DIODE | 56 | |
| D14 | | | 1SS133 | DIODE | 56 | |
| D21 | | | 1SS133 | DIODE | 56 | |
| D31 - 34 | | | 1SS133 | DIODE | 56 | |
| IC1 | | | TC9215AP | ANALOGUE IC | 56 | |
| IC2 | | | M62429P | ANALOGUE IC | 56 | |
| IC3, 4 | | | NJM4565L-D | ANALOGUE IC | 56 | |
| IC5 | | | SAA6579 | ANALOGUE IC | TEQ | |
| Δ Q1 | | | 2SC3940A(R,S) | TRANSISTOR | Q | |
| Δ Q1 | | | 2SC3940A(R,S) | TRANSISTOR | Y | YMXVTE |
| Q2 | | | 2SC2003(L,K) | TRANSISTOR | Q | |
| Q2 | | | 2SC2003(L,K) | TRANSISTOR | Y | YMXVTE |
| Q3 | | | 2SC2878(B) | TRANSISTOR | 56 | |
| Q4 | | | DTC124ESA | DIGITAL TRANSISTOR | 56 | |
| Q5 | | | 2SA933AS(Q,R) | TRANSISTOR | 56 | |

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106VR/107VR/KR-797/897/V6090/V7090

SPECIFICATIONS

KR-797 (for U.S.A. and Canada)

△ **Caution** : Read this page carefully to ensure safe operation.

Audio section

Rated power output at the STEREO operation

110 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

110 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Center

110 watts minimum RMS at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Surround

110 watts per channel minimum RMS, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion 0.3 % (1 kHz, 55 W, 8 Ω)

Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB

LINE (CD) 93 dB

Input sensitivity / impedance

PHONO (MM) 3.0 mV / 47 kΩ

CD 220 mV / 47 kΩ

Tone controls

BASS ± 8 dB (at 100 Hz)

MIDDLE ± 8 dB (at 900 Hz)

TREBLE ± 8 dB (at 10 kHz)

N.B. circuit + 5 dB (80 Hz)

Output level / impedance

Sub woofer preout 2.0 V / 600 Ω

FM Tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity

MONO 1.3 μV (at 75 Ω) / 13.2 dBf
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO 31.6 μV (at 75 Ω) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO 0.5 % (65 dBf input)

STEREO 0.6 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO 75 dB (65 dBf input)

STEREO 68 dB (65 dBf input)

Stereo separation (1 kHz) 40 dB

Selectivity (IHF ±400 kHz) 66 dB

Frequency response 30 Hz ~15 kHz, + 0.5 dB, - 3.0 dB

AM Tuner section

Tuning frequency range 530 kHz ~ 1,700 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 15 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) 48 dB

General

Power consumption 2.8 A

△ AC outlet

SWITCHED 1: (300 W, 2.5 A max.)

Dimensions W:440 mm (17-5/16")

H:127 mm (5")

D:389 mm (15-5/16")

Weight (net) 9.0 kg (19.9 lb)

SPECIFICATIONS

KR-897 (for U.S.A. and Canada)

⚠ **Caution:** Read this page carefully to ensure safe operation.

Audio section

Rated power output at the STEREO operation

120 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

120 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion

..... 0.3 % (1 kHz, 55 W, 8 Ω)

Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB

LINE (CD) 93 dB

Input sensitivity / Impedance

PHONO (MM) 3.0 mV / 47 kΩ

CD 220 mV / 47 kΩ

Tone controls

BASS ± 8 dB (at 100 Hz)

MIDDLE ± 8 dB (at 900 Hz)

TREBLE ± 8 dB (at 10 kHz)

N.B. circuit + 5 dB (80 Hz)

Output level / impedance

Sub woofer preout 2.0 V / 600 Ω

FM Tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity

MONO 1.3 μV (at 75 Ω) / 13.2 dBf
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO 31.6 μV (at 75 Ω) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO 0.5 % (65 dBf input)

STEREO 0.6 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO 75 dB (65 dBf input)

STEREO 68 dB (65 dBf input)

Stereo separation (1 kHz) 40 dB

Selectivity (IHF ±400 kHz) 66 dB

Frequency response 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

AM Tuner section

Tuning frequency range 530 kHz ~ 1,700 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 15 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) 48 dB

General

Power consumption 160 W

⚠ AC outlet

SWITCHED 1: (300 W, 2.5 A max.)

Dimensions W:440 mm (17-5/16")

H:127 mm (5")

D:389 mm (15-5/16")

Weight (net) 9.0 kg (19.9 lb)

106VR/107VR/KR-797/897/V6090/V7090
SPECIFICATIONS**KR-V6090**

⚠ **Caution:** Read this page carefully to ensure safe operation.

Audio section

Rated power output at the STEREO operation

100 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.7 % total harmonic distortion. (FTC)

1 kHz, 10 % THD at 8 Ω 120 W + 120 W

(DIN/IEC) from 63 Hz to 12,500 Hz,

0.7 % T.H.D., at 8 Ω 100 W + 100 W

Power output at the Surround operation

Front (1 kHz, 0.7 % T.H.D. at 8 Ω) 100 W + 100 W

Center (1 kHz, 0.7 % T.H.D. at 8 Ω) 100 W

Surround (1 kHz, 0.7 % T.H.D. at 8 Ω) 100 W

Front (1 kHz, 10 % T.H.D. at 8 Ω) 120 W + 120 W

Center (1 kHz, 10 % T.H.D. at 8 Ω) 120 W

Surround (1 kHz, 10 % T.H.D. at 8 Ω) 120 W

Total harmonic distortion (1 kHz, 8 Ω) 0.3 % (at 50 W)

Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB

LINE (CD) 93 dB

Input sensitivity / impedance

PHONO (MM) 3.0 mV / 47 kΩ

CD 220 mV / 47 kΩ

Tone controls

BASS ± 8 dB (at 100 Hz)

MIDDLE ± 8 dB (at 900 Hz)

TREBLE ± 8 dB (at 10 kHz)

N.B. circuit + 5 dB (80 Hz)

Output level / impedance

Sub woofer preout 2.0 V / 600 Ω

Video section

VIDEO inputs / outputs (Composite) 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity

MONO 2.0 μV (at 75 Ω) / 17.2 dBf
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO 35 μV (at 75 Ω) / 42.2 dBf

Total harmonic distortion (1 kHz)

MONO 0.7 % (65 dBf input)

STEREO 0.8 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO 73 dB (65 dBf input)

STEREO 66 dB (65 dBf input)

Selectivity (IHF ±400 kHz) 50 dB

Stereo separation (1 kHz) 40 dB

Frequency response 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

AM Tuner section

Tuning frequency range

9 kHz 531 kHz ~ 1,602 kHz

10 kHz 530 kHz ~ 1,610 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 13 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) 50 dB

General

Power consumption 250 W

⚠ AC outlet

SWITCHED 1: (50 W max.)

Dimensions W:440 mm

H:127 mm

D:389 mm

Weight (net) 9.0 kg

SPECIFICATIONS

KR-V7090

⚠ Caution : Read this page carefully to ensure safe operation.

Audio section

Rated power output at the STEREO operation

110 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.7 % total harmonic distortion. (FTC)

1 kHz, 10 % THD at 8 Ω 130 W + 130 W
(DIN/IEC) from 63 Hz to 12,500 Hz,
0.7 % T.H.D., at 8 Ω 110 W + 110 W

Power output at the Surround operation

Front (1 kHz, 0.7 % T.H.D. at 8 Ω) 110 W + 110 W
Center (1 kHz, 0.7 % T.H.D. at 8 Ω) 110 W
Surround (1 kHz, 0.7 % T.H.D. at 8 Ω) 110 W

Front (1 kHz, 10 % T.H.D. at 8 Ω) 130 W + 130 W
Center (1 kHz, 10 % T.H.D. at 8 Ω) 130 W
Surround (1 kHz, 10 % T.H.D. at 8 Ω) 130 W

Total harmonic distortion (1 kHz, 8 Ω) 0.3 % at 55 W
Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB
CD 93 dB

Input sensitivity / impedance

PHONO (MM) 3.0 mV / 47 kΩ
CD 220 mV / 47 kΩ

Output level / impedance

Sub woofer preout 1.0 V / 2.2 kΩ

Tone controls

BASS ± 8 dB (at 100 Hz)
MIDDLE ± 8 dB (at 900 Hz)
TREBLE ± 8 dB (at 10 kHz)
N.B. circuit + 5 dB (80 Hz)

Video section

VIDEO inputs / outputs (Composite) 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz
Usable sensitivity

MONO 2.0 μV (at 75 Ω) / 17.2 dBf
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO 35 μV (at 75 Ω) / 42.2 dBf

Total harmonic distortion (1 kHz)

MONO 0.7 % (65 dBf input)
STEREO 0.8 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO 73 dB (65 dBf input)
STEREO 66 dB (65 dBf input)

Stereo separation (1 kHz)

..... 40 dB

Selectivity (IHF ±400 kHz) 50 dB

Frequency response 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

AM Tuner section

Tuning frequency range

9 kHz 531 kHz ~ 1,602 kHz
10 kHz 530 kHz ~ 1,610 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 13 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) 50 dB

General

Power consumption 250 W

⚠ AC outlet

SWITCHED 1: (50 W max.)

Dimensions W: 440 mm

H: 127 mm

D: 389 mm

Weight (net) 9.0 kg

SPECIFICATIONS

106VR (for U.S.A. and Canada)

⚠ Caution : Read this page carefully to ensure safe operation.

Audio section

Rated power output at the STEREO operation

110 watts per channel minimum RMS, both channels driven at 8 Ω, from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

110 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Center

110 watts minimum RMS at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Surround

110 watts per channel minimum RMS, at 8 Ω, 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion 0.3 % (1 kHz, 55 W, 8 Ω)

Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB
LINE (CD) 93 dB

Input sensitivity / impedance

PHONO (MM) 3.0 mV / 47 kΩ
CD 220 mV / 47 kΩ

Tone controls

BASS ± 8 dB (at 100 Hz)
MIDDLE ± 8 dB (at 900 Hz)
TREBLE ± 8 dB (at 10 kHz)
N.B. circuit + 5 dB (80 Hz)

Output level / impedance

Sub woofer preout 2.0 V / 600 Ω

Video section

VIDEO inputs / outputs (Composite) 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz
Usable sensitivity

MONO 1.3 μV (at 75 Ω) / 13.2 dBf
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO 31.6 μV (at 75 Ω) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO 0.5 % (65 dBf input)
STEREO 0.6 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO 75 dB (65 dBf input)
STEREO 68 dB (65 dBf input)

Stereo separation (1 kHz)

..... 40 dB

Selectivity (IHF ±400 kHz) 66 dB

Frequency response 30 Hz ~ 15 kHz, + 0.5 dB, - 3.0 dB

AM Tuner section

Tuning frequency range 530 kHz ~ 1,700 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 15 μV / (500 μV / m)

Signal to noise ratio (30 % mod., 1 mV input) 48 dB

General

Power consumption 2.8 A

⚠ AC outlet

SWITCHED 1: (50 W, 0.42 A max.)

Dimensions W: 440 mm (17-5/16")

H: 127 mm (5")

D: 389 mm (15-5/16")

Weight (net) 9.0 kg (19.9 lb)

106VR/107VR/KR-797/897/V6090/V7090

SPECIFICATIONS

107VR (for U.S.A. and Canada)

⚠ **Caution** : Read this page carefully to ensure safe operation.

Audio section

Rated power output at the STEREO operation

120 watts per channel minimum RMS, both channels driven at 8 Ω , from 40 Hz to 20,000 Hz with no more than 0.8 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

120 watts per channel minimum RMS, both channels driven, at 8 Ω , 1 kHz with no more than 0.8 % total harmonic distortion.

Center

120 watts minimum RMS at 8 Ω , 1 kHz with no more than 0.8 % total harmonic distortion.

Surround

120 watts per channel minimum RMS, at 8 Ω , 1 kHz with no more than 0.8 % total harmonic distortion.

Total harmonic distortion 0.3 % (1 kHz, 60 W, 8 Ω)

Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB

LINE (CD) 93 dB

Input sensitivity / impedance

PHONO (MM) 3.0 mV / 47 k Ω

CD 220 mV / 47 k Ω

Tone controls

BASS \pm 8 dB (at 100 Hz)

MIDDLE \pm 8 dB (at 900 Hz)

TREBLE \pm 8 dB (at 10 kHz)

N.B. circuit + 5 dB (80 Hz)

Output level / impedance

Sub woofer preout 1.0 V / 2.2 k Ω

Video section

VIDEO inputs / outputs (Composite) 1 Vp-p / 75 Ω

Note :

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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FM Tuner section

Tuning frequency range 87.5 MHz - 108 MHz

Usable sensitivity

MONO 1.3 μ V (at 75 Ω) / 13.2 dBf
(75 kHz dev., SINAD 30 dB)

50 dB quieting sensitivity

STEREO 31.6 μ V (at 75 Ω) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO 0.5 % (65 dBf input)

STEREO 0.6 % (65 dBf input)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO 75 dB (65 dBf input)

STEREO 68 dB (65 dBf input)

Stereo separation (1 kHz) 40 dB

Selectivity (IHF \pm 400 kHz) 66 dB

Frequency response 30 Hz - 15 kHz, + 0.5 dB, - 3.0 dB

AM Tuner section

Tuning frequency range 530 kHz - 1,700 kHz

Usable sensitivity (30 % mod., S/N 20 dB)

..... 15 μ V / (500 μ V / m)

Signal to noise ratio (30 % mod., 1 mV input) 48 dB

General

Power consumption 2.8 A

⚠ AC outlet

SWITCHED 1: (50 W, 0.42 A max.)

Dimensions W: 440 mm (17-5/16")

H: 127 mm (5")

D: 389 mm (15-5/16")

Weight (net) 9.0 kg (19.9 lb)

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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